

Globally Certified Cable Adoption for ELG

ELG-75/100 Series

Connection	Input	SJOW 17AWGx2C & H05RN-F 1.0mm ² (30cm)
	Output	<ul style="list-style-type: none"> ▪ Blank/A-Type: SJOW 17AWGx2C & H05RN-F 1.0mm² (30cm) ▪ B/AB/D2/DA-Type: SJOW 17AWGx2C & H05RN-F 1.0mm² (30cm) + SJOW 17AWGx2C & H05RN-F 1.0mm² (30cm)

ELG-150 Series

Connection	Input	SJOW 17AWGx2C & H05RN-F 1.0mm ² (30cm)
	Output	<ul style="list-style-type: none"> ▪ Blank/A-Type: SJOW 17AWGx2C & H05RN-F 1.0mm² (30cm) ▪ B/AB/D2/DA-Type: SJOW 17AWGx2C & H05RN-F 1.0mm² (30cm) + SJOW 17AWGx2C & H05RN-F 1.0mm² (30cm) ▪ BE-Type: SJOW 17AWGx4C & H05RN-F 1.0mm² (30cm)+ SJOW 17AWGx2C & H05RN-F 1.0mm² (30cm)

ELG-200/240 Series

Connection	Input	SJOW 17AWGx2C & H05RN-F 1.0mm ² (30cm)
	Output	<ul style="list-style-type: none"> ▪ Blank/A-Type: SJTW 14AWGx2C (30cm) for 12V SJOW 17AWGx2C & H05RN-F 1.0mm² (30cm) for others ▪ B/AB/D2/DA-Type: SJTW 14AWGx2C (30cm) + SJOW 17AWGx2C & H05RN-F 1.0mm² (30cm) for 12V SJOW 17AWGx2C & H05RN-F 1.0mm² (30cm) + SJOW 17AWGx2C & H05RN-F 1.0mm² (30cm) for others

ELG-75/100-C Series

Connection	Input	SJOW 17AWGx2C & H05RN-F 1.0mm ² (30cm)
	Output	<ul style="list-style-type: none"> ▪ Blank/A-Type: SJOW 17AWGx2C & H05RN-F 1.0mm² (30cm) ▪ B/AB/D2/DA-Type: SJOW 17AWGx2C & H05RN-F 1.0mm² (30cm) + SJOW 17AWGx2C & H05RN-F 1.0mm² (30cm)

ELG-150-C Series

Connection	Input	SJOW 17AWGx2C & H05RN-F 1.0mm ² (30cm)
	Output	<ul style="list-style-type: none"> ▪ Blank/A-Type: SJOW 17AWGx2C & H05RN-F 1.0mm² (30cm) ▪ B/AB/D2/DA-Type: SJOW 17AWGx2C & H05RN-F 1.0mm² (30cm) + SJOW 17AWGx2C & H05RN-F 1.0mm² (30cm) ▪ BE-Type: SJOW 17AWGx4C & H05RN-F 1.0mm² (30cm)+ SJOW 17AWGx2C & H05RN-F 1.0mm² (30cm)

ELG-200/240-C Series

Connection	Input	SJOW 17AWGx2C & H05RN-F 1.0mm ² (30cm)
	Output	<ul style="list-style-type: none"> ▪ Blank/A-Type: SJOW 17AWGx2C & H05RN-F 1.0mm² (30cm) ▪ B/AB/D2/DA-Type: SJOW 17AWGx2C & H05RN-F 1.0mm² (30cm) + SJOW 17AWGx2C & H05RN-F 1.0mm² (30cm)

ELGC-300 / ELG-300 Series

Connection	Input	SJOW 17AWGx3C & H05RN-F 1.0mm ² (30cm)
	Output	<ul style="list-style-type: none"> ▪ Blank/A-Type: SJOW 17AWGx2C & H05RN-F 1.0mm² (30cm) / ELG-300: SJOW 14AWGx2C & H05RN-F 1.0mm² (30cm) ▪ AB/D2/DA-Type: SJOW 17AWGx2C & H05RN-F 1.0mm² (30cm) + SJOW 17AWGx2C & H05RN-F 1.0mm² (30cm) ▪ Dimming cable: UL2517 20AWGx2C(30cm)

HLG series 40~60W

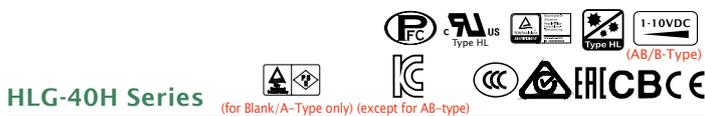
Features

- Constant voltage + constant current modes
- Universal AC input (90 to 305VAC) / Full range
- High efficiency up to 90.5%
- Meet 4kV surge immunity level (IEC61000-4-5)
- Class 2 power unit
- Type HL LED Driver for use in Class I, Division 2 hazardous location luminaires
- Suitable for dry, damp, and wet location with IP67
- Suitable for outdoor LED lighting applications
- Protections:
Short circuit / Over current / Over voltage / Over temp.

- Multiple models for choice:
 - Blank-Type:** IP67 rated. Cable for I/O connection (For harsh environment)
 - A-Type:** IP65 rated. Io and Vo adjustable through built-in potentiometer
 - B-Type:** IP67 rated. 3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance)
 - AB-Type:** IP65 rated. Io adjustable through built-in potentiometer & 3 in 1 dimming function.
 - D-Type(option):** IP67 rated. Timer dimming function, contact MEAN WELL for details.
- 7 years warranty

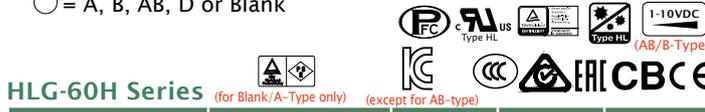


INPUT	ACL ACN FG
OUTPUT (Non-Dimming Models)	Vo- Vo+
OUTPUT (Dimming Models)	DIM+ DIM- Vo- Vo+
AC input voltage range	90~305VAC ; 127~431VDC
AC inrush current (max.)	Cold start, 50A at 230VAC
DC adjustment range	±10% rated output voltage (A-Type only)
Current adjustment range	60%~100% via potentiometer (A-Type only)
Over current protection	95%~108% constant current limiting, auto-recovery
Over voltage protection	109%~145% rated output voltage
Setup, rise, hold up time	500ms, 80ms, 16ms at full load and 230VAC
Withstand voltage	I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG:1.5kVAC
Working temperature	-40~+80°C (refer to "OUTPUT LOAD vs TEMPERATURE")
Safety standards	UL8750, EN/AS/NZS61347-1,-2-13, PSE J61347-1, J61347-2-13, GB19510.14, GB19510.1, EAC TP TC 004 approved; KC61347-1, KC61347-2-13 (except for AB-type) Design refer to UL62368-1, EN60335-1
EMC standards	EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547, GB17743, GB17625.1, EAC TP TC 020
Connection	Please refer to page 65
Dimension (LxWxH) (mm)	171 x 61.5 x 36.8



Model No.	Output	Tol.	R&N	Effi.
HLG-40H-12(A)	12V, 0~3.33A	±2.5%	150mV	86.5%
HLG-40H-15(A)	15V, 0~2.67A	±2.0%	150mV	86.5%
HLG-40H-20(A)	20V, 0~2.00A	±1.0%	150mV	88.0%
HLG-40H-24(A)	24V, 0~1.67A	±1.0%	200mV	88.0%
HLG-40H-30(A)	30V, 0~1.34A	±1.0%	200mV	88.5%
HLG-40H-36(A)	36V, 0~1.12A	±1.0%	200mV	88.5%
HLG-40H-42(A)	42V, 0~0.96A	±1.0%	200mV	88.5%
HLG-40H-48(A)	48V, 0~0.84A	±1.0%	300mV	89.5%
HLG-40H-54(A)	54V, 0~0.75A	±1.0%	300mV	89.5%

○ = A, B, AB, D or Blank



Model No.	Output	Tol.	R&N	Effi.
HLG-60H-15(A)	15V, 0~4.0A	±2.0%	150mV	87.5%
HLG-60H-20(A)	20V, 0~3.0A	±1.0%	150mV	89.0%

Model No.	Output	Tol.	R&N	Effi.
HLG-60H-24(A)	24V, 0~2.5A	±1.0%	150mV	89.5%
HLG-60H-30(A)	30V, 0~2.0A	±1.0%	200mV	90.0%
HLG-60H-36(A)	36V, 0~1.70A	±1.0%	200mV	90.0%
HLG-60H-42(A)	42V, 0~1.45A	±1.0%	300mV	90.0%
HLG-60H-48(A)	48V, 0~1.30A	±1.0%	300mV	90.5%
HLG-60H-54(A)	54V, 0~1.15A	±1.0%	300mV	90.5%

○ = A, B, AB, D or Blank

▶ Junction Box for HLG Series



- Optional junction box available for HLG-80H~480H series (A/B/Blank-Type only). Please contact MEAN WELL for details.
- "UL8750 listed" safety & IP66 approved for HLG-80H-□BL (modified from B-Type only)

HLG series 80~120W

Features

- Constant voltage + constant current modes
- Universal AC input (90 to 305VAC) / Full range
- High efficiency up to 93.5%
- Meet 4kV surge immunity level (IEC61000-4-5)
- Class 2 power unit / Pass LPS (except for HLG-120H)
- Type HL LED Driver for use in Class I, Division 2 hazardous location luminaires
- Suitable for dry, damp, and wet location with IP67
- Suitable for outdoor LED lighting applications
- Protections:
 - Short circuit / Over current / Over voltage / Over temp
- 7 years warranty

- Multiple models for choice:

- Blank-Type:** IP67 rated. Cable for I/O connection (For harsh environment)
- A-Type:** IP65 rated. Io and Vo adjustable through built-in potentiometer
- B-Type:** IP67 rated. 3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance)
- AB-Type:** IP65 rated. Io adjustable and Vo (except for HLG-80H) through built-in potentiometer & 3 in 1 dimming function.
- BL-Type(option):** Junction box option for HLG-80H B-Type only, "UL8750 listed" safety & IP66 approved, contact MEAN WELL for details
- D-Type(option):** IP67 rated. Timer dimming function, contact MEAN WELL for details



INPUT	ACL ACN FG
OUTPUT (Non-Dimming Models)	Vo- Vo+
OUTPUT (Dimming Models)	DIM+ DIM- Vo- Vo+
AC input voltage range	90~305VAC ; 127~431VDC
AC inrush current (max.)	Cold start, 70A at 230VAC Cold start, 60A at 230VAC
DC adjustment range	±10% rated output voltage (A-Type only)
Current adjustment range	HLG-80H/100H: 60%~100% ; HLG-120H: 50%~100% via potentiometer (A-Type only)
Over current protection	95%~108% constant current limiting, auto-recovery
Over voltage protection	110%~140% rated output voltage
Setup, rise, hold up time	500ms, 80ms, 16ms at full load and 230VAC 500ms, 50ms, 16ms at full load and 230VAC
Withstand voltage	I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC
Working temperature	-40~+80°C (refer to "OUTPUT LOAD vs TEMPERATURE")
Safety standards	UL8750, TUV EN61347-1, EN61347-2-13, PSE J61347-1, J61347-2-13(except for B,AB,D type), GB19510.14, GB19510.1, EAC TP TC 004 approved; BIS IS15885(refer to spec for models); UL8750 listed for HLG-80H-□BL only , KC61347-1, KC61347-2-13
EMC standards	EN55015, EN55032 class B (except for HLG-80H), EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547, GB17743, GB17625.1, EAC TP TC 020
Connection	Please refer to page 65
Dimension (LxWxH) (mm)	195.6x 61.5x 38.8 220x 68x 38.8



HLG-80H Series

Model No.	Output	Tol.	R&N	Effi.
HLG-80H-12(A)	12V, 0~5.0A	±2.5%	150mV	88.0%
HLG-80H-15(A)	15V, 0~5.0A	±2.0%	150mV	89.0%
HLG-80H-20(A)	20V, 0~4.0A	±1.0%	150mV	90.0%
HLG-80H-24(A)	24V, 0~3.4A	±1.0%	150mV	90.5%
HLG-80H-30(A)	30V, 0~2.7A	±1.0%	200mV	91.0%
HLG-80H-36(A)	36V, 0~2.3A	±1.0%	200mV	91.0%
HLG-80H-42(A)	42V, 0~1.95A	±1.0%	200mV	91.0%
HLG-80H-48(A)	48V, 0~1.7A	±1.0%	200mV	91.0%
HLG-80H-54(A)	54V, 0~1.5A	±1.0%	200mV	91.0%

○ = A, B, AB, BL, D or Blank



HLG-100H Series

Model No.	Output	Tol.	R&N	Effi.
HLG-100H-20(A)	20V, 0~4.8A	±1%	150mV	93%
HLG-100H-24(A)	24V, 0~4.0A	±1%	150mV	93%
HLG-100H-30(A)	30V, 0~3.2A	±1%	200mV	93%

Model No.	Output	Tol.	R&N	Effi.
HLG-100H-36(A)	36V, 0~2.65A	±1%	200mV	93%
HLG-100H-42(A)	42V, 0~2.28A	±1%	200mV	93%
HLG-100H-48(A)	48V, 0~2.0A	±1%	200mV	93%
HLG-100H-54(A)	54V, 0~1.77A	±1%	200mV	93%

○ = A, B, AB, D or Blank



HLG-120H Series

Model No.	Output	Tol.	R&N	Effi.
HLG-120H-12(A)	12V, 0~10A	±2.5%	150mV	92.0%
HLG-120H-15(A)	15V, 0~8.0A	±2.0%	150mV	92.0%
HLG-120H-20(A)	20V, 0~6.0A	±1.0%	150mV	93.0%
HLG-120H-24(A)	24V, 0~5.0A	±1.0%	150mV	93.0%
HLG-120H-30(A)	30V, 0~4.0A	±1.0%	200mV	93.0%
HLG-120H-36(A)	36V, 0~3.4A	±1.0%	200mV	93.0%
HLG-120H-42(A)	42V, 0~2.9A	±1.0%	200mV	93.0%
HLG-120H-48(A)	48V, 0~2.5A	±1.0%	200mV	93.5%
HLG-120H-54(A)	54V, 0~2.3A	±1.0%	200mV	93.5%

○ = A, B, AB, D or Blank

HLG series 150~240W

Features

- Constant voltage+constant current modes
- Universal AC input (90 to 305VAC) / Full range
- High efficiency up to 94%
- Meet 4kV surge immunity level (IEC61000-4-5)
- Type HL LED Driver for use in Class I, Division 2 hazardous location luminaires
- Suitable for dry, damp, and wet location with IP67
- Suitable for outdoor LED lighting applications
- Protections:
 - Short circuit / Over current / Over voltage / Over temp.
- 7 years warranty

- Multiple models for choice:
 - Blank-Type:** IP67 rated. Cable for I/O connection (For harsh environment)
 - A-Type:** IP65 rated. Io and Vo adjustable through built-in potentiometer
 - B-Type:** IP67 rated. 3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance)
 - AB-Type:** IP65 rated. Io adjustable and Vo through built-in potentiometer & 3 in 1 dimming function.
 - C-Type:** Terminal block for I/O connection (HLG-240H)
 - D-Type(option):** IP67 rated. Timer dimming function, contact MEAN WELL for details
- Optional RCM models available (HLG-150H/185H/240H-A/B/Blank-Type)

	HLG-150H/185H	HLG-240H
INPUT	ACL ACN FG	
OUTPUT (Non-Dimming Models)	Vo- Vo+	
OUTPUT (Dimming Models)	DIM+ DIM- Vo- Vo+	
AC input voltage range	90~305VAC; 127~431VDC	
AC inrush current (max.)	Cold start, 65A at 230VAC	Cold start, 75A at 230VAC
DC adjustment range	±10% rated output voltage (A-Type only)	±6% rated output voltage (A-Type & C-Type)
Current adjustment range	HLG-150H: 60%~100% ; HLG-185H/240H: 50%~100% via potentiometer (A-Type & HLG-240H C-Type)	
Over current protection	95%~108% constant current limiting, auto-recovery	
Over voltage protection	110%~140% rated output voltage	
Setup, rise, hold up time	500ms, 50ms, 16ms	500ms, 80ms, 15ms at full load and 230VAC
Withstand voltage	I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC	
Working temperature	-40~+90°C (refer to "OUTPUT LOAD vs TEMPERATURE")	
Safety standards	UL8750, EN/AS/NZS61347-1,-2-13(except for HLG-240H C-Type), PSE J61347-1, J61347-2-13, GB19510.14, GB19510.1, EAC TP TC 004 approved; UL1012, UL62368-1, TUV EN62368-1 approved for HLG-240H only; BIS IS15885(refer to spec for models), KC61347-1, KC61347-2-13(except for AB, C, D-type)	
EMC standards	EN55015, EN55032 class B, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547, GB17743, GB17625.1, EAC TP TC 020, KC KN15, KN61547(except for AB, Dx, D2-type)	
Connection	Please refer to page 65	
Dimension (LxWxH)(mm)	228x 68x 38.8	A/B/D/Blank-Type: 244.2x 68x 38.8 C-Type: 251x 68x 38.8

HLG-150H Series (except for AB, D-type) (for 128, 248, 35A, 54A) (AB/B-Type)

Model No.	Output	Tol.	R&N	Effi.
HLG-150H-12(A)	12V, 0~12.5A	±2.5%	150mV	91.5%
HLG-150H-15(A)	15V, 0~10.0A	±2.0%	150mV	92.0%
HLG-150H-20(A)	20V, 0~7.50A	±1.0%	150mV	93.0%
HLG-150H-24(A)	24V, 0~6.30A	±1.0%	150mV	93.0%
HLG-150H-30(A)	30V, 0~5.00A	±1.0%	200mV	93.5%
HLG-150H-36(A)	36V, 0~4.20A	±1.0%	200mV	93.5%
HLG-150H-42(A)	42V, 0~3.60A	±1.0%	200mV	94.0%
HLG-150H-48(A)	48V, 0~3.20A	±1.0%	200mV	94.0%
HLG-150H-54(A)	54V, 0~2.80A	±1.0%	200mV	94.0%

○ = A, B, AB, D or Blank

HLG-185H Series (except for AB, D-type) (for Blank/A-Type only) (AB/B-Type)

Model No.	Output	Tol.	R&N	Effi.
HLG-185H-12(A)	12V, 0~13.0A	±2.5%	150mV	91.5%
HLG-185H-15(A)	15V, 0~11.5A	±2.0%	150mV	92.0%
HLG-185H-20(A)	20V, 0~9.30A	±1.0%	150mV	93.0%
HLG-185H-24(A)	24V, 0~7.80A	±1.0%	150mV	93.5%

Model No.	Output	Tol.	R&N	Effi.
HLG-185H-30(A)	30V, 0~6.20A	±1.0%	200mV	93.5%
HLG-185H-36(A)	36V, 0~5.20A	±1.0%	200mV	93.5%
HLG-185H-42(A)	42V, 0~4.40A	±1.0%	200mV	94.0%
HLG-185H-48(A)	48V, 0~3.90A	±1.0%	200mV	94.0%
HLG-185H-54(A)	54V, 0~3.45A	±1.0%	200mV	94.0%

○ = A, B, AB, D or Blank

HLG-240H Series (except for AB, C, D-type) (except for C-Type) (for 48V) (AB/B-Type)

Model No.	Output	Tol.	R&N	Effi.
HLG-240H-12(A)	12V, 0~16.0A	±2.5%	150mV	90.0%
HLG-240H-15(A)	15V, 0~15.0A	±2.0%	150mV	90.0%
HLG-240H-20(A)	20V, 0~12.0A	±1.0%	150mV	91.5%
HLG-240H-24(A)	24V, 0~10.0A	±1.0%	150mV	92.5%
HLG-240H-30(A)	30V, 0~8.00A	±1.0%	200mV	92.5%
HLG-240H-36(A)	36V, 0~6.70A	±1.0%	250mV	92.5%
HLG-240H-42(A)	42V, 0~5.72A	±1.0%	250mV	92.5%
HLG-240H-48(A)	48V, 0~5.00A	±1.0%	250mV	93.0%
HLG-240H-54(A)	54V, 0~4.45A	±1.0%	350mV	93.5%

○ = A, B, AB, C, D or Blank

HLG series 600W

Features

- Constant voltage+constant current modes
- Universal AC input (90 to 305VAC) / Full range
- High efficiency up to 96%
- Meet 4kV surge immunity level (IEC61000-4-5)
- No load power consumption <0.5W at remote off (HLG-600H)
- Type HL LED Driver for use in Class I, Division 2 hazardous location luminaires
- LED indicator for power on (A-Type only)
- Suitable for outdoor LED lighting applications
- Protections:
Short circuit / Over current / Over voltage / Over temperature

• Multiple models for choice:

Blank-Type: IP67 rated. Io and Vo fixed(For harsh environment)

A-Type: IP65 rated. Io and Vo adjustable through built-in potentiometer

B-Type: IP67 rated. 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)

AB-Type: IP65 rated. Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function.

7 years warranty



AC input voltage range	90~305VAC; 127~431VDC
AC inrush current (max.)	Cold start, 70A at 230VAC
DC adjustment range	-15%~+5% rated output voltage (A-Type only)
Current adjustment range	50%~100% via potentiometer (A-Type & HLG-320H C-Type only)
Over current protection	95%~108% constant current limiting, auto-recovery
Over voltage protection	110%~140% rated output voltage
Setup, rise, hold up time	500ms, 80ms, 15ms at full load and 230VAC
Withstand voltage	I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC
Working temperature	-40~+90°C (refer to "OUTPUT LOAD vs TEMPERATURE")
Safety standards	UL60950-1, UL8750(type"HL"), CSA C22.2 No. 250.13-12, ENEC EN61347-1, EN61347-2-13 independent, EN62384,IP65 or IP67, J61347-1, J61347-2-13, CCC GB4943.1, EAC TP TC 004, AS/NZS 60950.1(by CB), KC61347-1, KC61347-2-13(for 24A,36A,48A,54A only) approved
EMC standards	EN55032 (CISPR32) Class B, EN55015, EN61000-3-2 Class C (@ load ≥ 50%) ; EN61000-3-3, EAC TP TC 020;KC KN15, KN61547(for 24A,36A,48A,54A only);EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV)
Connection	Please refer to page 65
Dimension (LxWxH)(mm)	280x 144x 48.5

HLG-600H Series

Model No.	Output	Tol.	R&N	Effi.
HLG-600H-12(A)	12V, 0~40A	±3.0%	150mV	92.0%
HLG-600H-15(A)	15V, 0~36A	±2.0%	150mV	93.5%
HLG-600H-20(A)	20V, 0~28A	±1.5%	150mV	94.5%
HLG-600H-24(A)	24V, 0~25A	±1.0%	150mV	95.0%
HLG-600H-30(A)	30V, 0~20A	±1.0%	200mV	95.0%



Model No.	Output	Tol.	R&N	Effi.
HLG-600H-36(A)	36V, 0~16.7A	±1.0%	250mV	95.5%
HLG-600H-42(A)	42V, 0~14.3A	±1.0%	250mV	96.0%
HLG-600H-48(A)	48V, 0~12.5A	±1.0%	250mV	96.0%
HLG-600H-54(A)	54V, 0~11.2A	±1.0%	350mV	96.0%

○ = A, B, AB

HLG-C series 60~120W

Features

- Constant current mode
- Universal AC input (90 to 305VAC)/ Full range
- High efficiency up to 94%
- Suitable for dry, damp, and wet location
- Suitable for outdoor LED lighting applications
- Protections: Short circuit / Over voltage / Over temperature
- 7 years warranty

· Multiple models for choice:

- A-Type:** IP65 rated. Io adjustable through built-in potentiometer
- B-Type:** IP67 rated. 3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance)
- AB-Type:** IP65 rated. Io adjustable through built-in potentiometer & 3 in 1 dimming function.
- D-Type (option):** IP67 rated. Timer dimming function, contact MEAN WELL for details



AC input voltage range	90~305VAC; 127VDC~431VDC	
AC inrush current (max.)	Cold start, 60A at 230VAC	Cold start, 50A at 230VAC
Current adjustment range	60%~100% via potentiometer (A-Type only)	50%~100% via potentiometer (A-Type only)
Short circuit protection	Hiccup mode, auto-recovery	Constant current limiting, auto-recovery
Over voltage protection	110%~140%, shut down o/p voltage, re-power on to recover	
Over temp. protection	Shut down o/p voltage, re-power on to recover	Shut down o/p voltage, auto-recovery
Setup time	500ms at full load and 230VAC	
Withstand voltage	I/P-O/P:3.75kVAC, I/P-FG:2kVAC, O/P-FG:1.5kVAC	
Working temperature	-40~+80°C (refer to "OUTPUT LOAD vs TEMPERATURE")	-40~+90°C (refer to "OUTPUT LOAD vs TEMPERATURE")
Safety standards	UL8750, GB19510.14, GB1950.1, EAC TP TC 004, EN/AS/NZS61347-1,-2-13, PSE J61347-1(for HLG-120H-C A-Type only), J61347-2-13(for HLG-120H-C A-Type only) approved	
EMC standards	EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547, GB17743, GB17625.1, EAC TP TC 020	
Connection	Please refer to page 65	
Dimension (LxWxH)(mm)	171x 61.5x 36.8	195.6x 61.5x 38.8 220x 68x 38.8

HLG-60H-C Series (70W)

1-10VDC (AB/B-Type) FC c UL us

UL, CE, ENEC, CB, EAC, FCC, RoHS

Model No.	Output	Io Tol.	Io Ripple	Effi.
HLG-60H-C350(A)	100~200V, 350mA	±5%	5% max.	91%
HLG-60H-C700(A)	50~100V, 700mA	±5%	5% max.	90.5%

○ = A, B, AB or D

HLG-80H-C Series (90W)

1-10VDC (AB/B-Type) FC c UL us

UL, CE, ENEC, CB, EAC, FCC, RoHS

Model No.	Output	Io Tol.	Io Ripple	Effi.
HLG-80H-C350(A)	167~257V, 350mA	±5%	8% max.	91.5%
HLG-80H-C700(A)	84~129V, 700mA	±5%	8% max.	91.5%

○ = A, B, AB or D

HLG-120H-C Series (150W)

1-10VDC (AB/B-Type) FC c UL us

UL, CE, ENEC, CB, EAC, FCC, RoHS

Model No.	Output	Io Tol.	Io Ripple	Effi.
HLG-120H-C350(A)	215~430V, 350mA	±5%	8% max.	94%
HLG-120H-C500(A)	150~300V, 500mA	±5%	8% max.	94%
HLG-120H-C700(A)	107~215V, 700mA	±5%	8% max.	94%
HLG-120H-C1050(A)	74~148V, 1050mA	±5%	8% max.	94%
HLG-120H-C1400(A)	54~108V, 1400mA	±5%	8% max.	93.5%

○ = A, B, AB or D

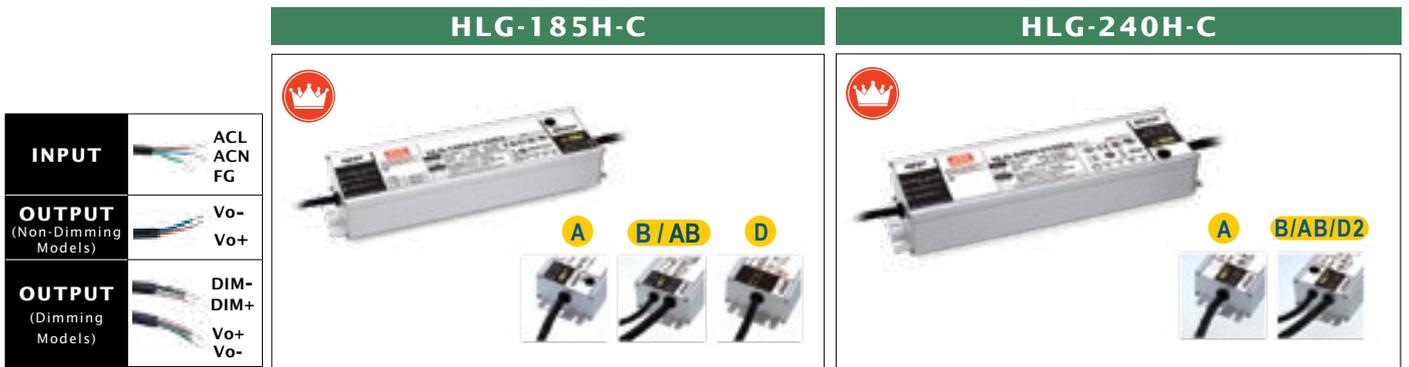
HLG-C series 185~240W

Features

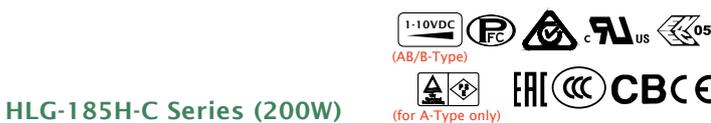
- Constant current mode
- Universal AC input (90 to 305VAC)/ Full range
- High efficiency up to 94%
- Type HL LED Driver for use in Class I, Division 2 hazardous location luminaires (HLG-240H-C)
- Suitable for dry, damp, and wet location
- Suitable for outdoor LED lighting applications
- Protections: Short circuit / Over voltage / Over temperature
- 7 years warranty

· Multiple models for choice:

- A-Type:** IP65 rated. Io adjustable through built-in potentiometer
- B-Type:** IP67 rated. 3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance)
- AB-Type:** IP65 rated. Io adjustable through built-in potentiometer & 3 in 1 dimming function.
- D-Type (option):** IP67 rated. Timer dimming function, contact MEAN WELL for details(HLG-185H-C only)
- D2-Type (option):** IP67 rated. Smart timer dimming function*, contact MEAN WELL for details (HLG-240H-C)



AC input voltage range	90~305VAC; 127VDC~431VDC	
AC inrush current (max.)	Cold start, 55A at 230VAC	Cold start, 75A at 230VAC
Current adjustment range	50%~100% via potentiometer (A-Type only)	
Short circuit protection	Constant current limiting, auto-recovery	
Over voltage protection	105%~120%, Shut down o/p voltage, re-power on to recover	
Setup time	500ms at full load and 230VAC	500ms at full load and 230VAC
Withstand voltage	I/P-O/P:3.75kVAC, I/P-FG:2kVAC, O/P-FG:1.5kVAC	
Working temperature	-40~+90°C (refer to "OUTPUT LOAD vs TEMPERATURE")	
Safety standards	UL8750, EN/AS/NZS61347-1,-2-13, EN62384, GB19510.1, GB19510.14, EAC TP TC 004; PSE J61347-1, J61347-2-13(HLG-185H-C A-Type only) approved	
EMC standards	EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547, GB17743, GB17625.1, EAC TP TC 020	
Connection	Please refer to page 65	
Dimension (LxWxH)(mm)	228x 68x 38.8	244.2x 68x 38.8



HLG-185H-C Series (200W)

Model No.	Output	Io Tol.	Io Ripple	Effi.
HLG-185H-C500(A)	200~400V, 500mA	±5%	5% max.	94%
HLG-185H-C700(A)	143~286V, 700mA	±5%	5% max.	94%
HLG-185H-C1050(A)	95~190V, 1050mA	±5%	5% max.	94%
HLG-185H-C1400(A)	71~143V, 1400mA	±5%	5% max.	94%

○ = A, B, AB or D



HLG-240H-C Series (250W)

Model No.	Output	Io Tol.	Io Ripple	Effi.
HLG-240H-C700(A)	178~357V, 700mA	±5%	5% max.	93.5%
HLG-240H-C1050(A)	119~238V, 1050mA	±5%	5% max.	93.5%
HLG-240H-C1400(A)	89~179V, 1400mA	±5%	5% max.	94%
HLG-240H-C1750(A)	71~143V, 1750mA	±5%	5% max.	94%
HLG-240H-C2100(A)	59~119V, 2100mA	±5%	5% max.	93.5%

○ = A, B, AB or D2

*MEAN WELL Smart timer dimming primarily provides the adaptive proportion dimming profile for the output constant current level.

HLG-C series 320~480W

Features

- Constant current mode
- Universal AC input (90 to 305VAC)/ Full range
- High efficiency up to 95%
- Type HL LED Driver for use in Class I, Division 2 hazardous location luminaires
- Suitable for dry, damp, and wet location
- Suitable for outdoor LED lighting applications
- Protections: Short circuit / Over voltage / Over temperature
- Environment-adaptive driving capability (HLG-480H-C)
- 7 years warranty

· Multiple models for choice:

A-Type: IP65 rated. Io adjustable through built-in potentiometer
B-Type: IP67 rated. 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)

AB-Type: IP65 rated. Io adjustable through built-in potentiometer & 3 in 1 dimming function.

D2-Type (option): IP67 rated. Smart timer dimming function*, contact MEAN WELL for details

DA-Type (option): IP67 rated. DALI control technology (HLG-320H-C only)

INPUT	ACL ACN FG
OUTPUT (Non-Dimming Models)	Vo- Vo+
OUTPUT (Dimming Models)	DIM- DIM+ Vo+ Vo-



AC input voltage range	90~305VAC; 127VDC~431VDC	
AC inrush current (max.)	Cold start, 70A at 230VAC	Cold start, 35A at 230VAC
Current adjustment range	50%~100% via potentiometer (A-Type only)	
Short circuit protection	Constant current limiting, auto-recovery	
Over voltage protection	105%~120%, Shut down o/p voltage, re-power on to recover	
Setup time	500ms at full load and 230VAC	
Withstand voltage	I/P-O/P:3.75kVAC, I/P-FG:2kVAC, O/P-FG:1.5kVAC	
Working temperature	-40~+85°C (refer to "OUTPUT LOAD vs TEMPERATURE")	-40~+90°C (refer to "OUTPUT LOAD vs TEMPERATURE")
Safety standards	UL8750, AS/NZS60950.1 (HLG-480-C), IEC 62384, EN61347-1, EN61347-2-13, EN62384, GB19510.14, GB19510.1, EAC TP TC 004 approved	
EMC standards	EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547, GB17743, GB17625.1, EAC TP TC 020	
Connection	Please refer to page 65	
Dimension (LxWxH)(mm)	252x 90x 43.8	262x 125x 43.8

HLG-320H-C Series (320W)

Model No.	Output	Io Tol.	Io Ripple	Effi.
HLG-320H-C700(A)	214~428V, 700mA	±5%	5% max.	94.0%
HLG-320H-C1050(A)	152~305V, 1050mA	±5%	5% max.	94.0%
HLG-320H-C1400(A)	114~229V, 1400mA	±5%	5% max.	94.0%
HLG-320H-C1750(A)	91~183V, 1750mA	±5%	5% max.	94.0%
HLG-320H-C2100(A)	76 ~ 152V, 2100mA	±5%	5% max.	94.0%
HLG-320H-C2800(A)	57~114V, 2800mA	±5%	5% max.	94.0%
HLG-320H-C3500(A)	46~91V, 3500mA	±5%	5% max.	94.0%

○ = A, B, AB, D2 or DA

HLG-480H-C Series (480W)

Model No.	Output	Io Tol.	Io Ripple	Effi.
HLG-480H-C1400(A)	171~341V, 1400mA	±5%	5% max.	95.0%
HLG-480H-C1750(A)	137~274V, 1750mA	±5%	5% max.	95.0%
HLG-480H-C2100(A)	114~229V, 2100mA	±5%	5% max.	95.0%
HLG-480H-C2800(A)	85~171V, 2800mA	±5%	5% max.	95.0%
HLG-480H-C3500(A)	68~137V, 3500mA	±5%	5% max.	95.0%

○ = A, B, AB or D2

*MEAN WELL Smart timer dimming primarily provides the adaptive proportion dimming profile for the output constant current level.

HVG series 65~100W

Features

- Constant voltage+constant current modes
- 180~528VAC wide input range
- Class 2 power unit / Pass LPS
- Type HL LED Driver for use in Class I, Division 2 hazardous location luminaires (HVG-100)
- Suitable for dry, damp, and wet location
- Suitable for outdoor LED lighting applications
- Protections: Short circuit / Over current / Over voltage / Over temperature
- 5 years warranty

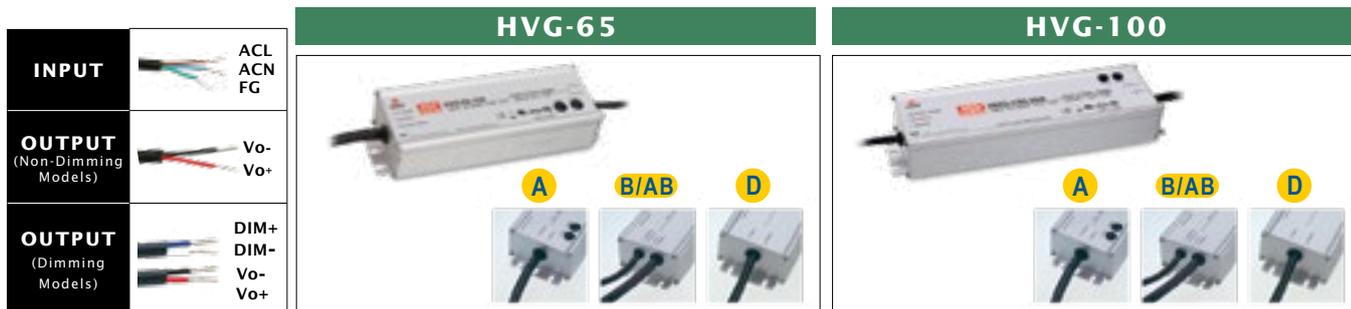
- Multiple models for choice:

A-Type: IP65 rated. Io and Vo adjustable through built-in potentiometer

B-Type: IP67 rated. 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)

AB-Type: IP65 rated. Io and Vo(for HVG-100 only) adjustable through built-in potentiometer & 3 in 1 dimming function.

D-Type (option): IP67 rated. Timer dimming function, contact MEAN WELL for details



AC input voltage range	180~528VAC (single phase); 254~747VDC		
AC inrush current (max.)	Cold start, 25A at 480VAC	Cold start, 25A at 480VAC	
DC adjustment range	±10% rated output voltage (A-Type only)		
Current adjustment range	60%~100% via potentiometer (A-Type only)	55%~100% via potentiometer (A-Type only)	
Over current protection	95%~108% constant current limiting, auto-recovery		
Over voltage protection	110%~140% rated output voltage		
Setup, rise, hold up time	400ms, 80ms, 16ms at full load and 347VAC/480VAC	500ms, 80ms, 30ms at full load and 347VAC/480VAC	
Withstand voltage	I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC		
Working temperature	-40~+80°C (refer to "OUTPUT LOAD vs TEMPERATURE")	-40~+90°C (refer to "OUTPUT LOAD vs TEMPERATURE")	
Safety standards	UL8750, CSA C22.2 No. 250.0-13, EAC TP TC 004 IP65 or IP67 approved		
EMC standards	EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547, EAC TP TC 020, FCC part 15 subpart B		
Connection	Input	UL rated, STW 18AWGx3C (30cm)	
	Output	A&D-Type	SVT 18AWGx2C (30cm)
		B/AB-Type	SVT 18AWGx2C (30cm)+UL2517 18AWGx2C (30cm)
Dimension (LxWxH)(mm)	189x 61.5x 36.8	236x 68x 38.8	

HVG-65 Series



Model No.	Output	Tol.	R&N	Effi.
HVG-65-12Ⓐ	12V, 0~5A	±2.0%	120mV	86.5%
HVG-65-15Ⓐ	15V, 0~4.3A	±2.0%	150mV	87.5%
HVG-65-20Ⓐ	20V, 0~3.25A	±1.0%	150mV	88.5%
HVG-65-24Ⓐ	24V, 0~2.71A	±1.0%	150mV	89.0%
HVG-65-30Ⓐ	30V, 0~2.17A	±1.0%	200mV	89.0%
HVG-65-36Ⓐ	36V, 0~1.81A	±1.0%	200mV	89.5%
HVG-65-42Ⓐ	42V, 0~1.55A	±1.0%	300mV	89.5%
HVG-65-48Ⓐ	48V, 0~1.36A	±1.0%	300mV	90.0%
HVG-65-54Ⓐ	54V, 0~1.21A	±1.0%	300mV	90.0%

HVG-100 Series



Model No.	Output	Tol.	R&N	Effi.
HVG-100-15Ⓐ	15V, 0~5A	±2.0%	150mV	89.0%
HVG-100-20Ⓐ	20V, 0~4.8A	±1.0%	150mV	90.0%
HVG-100-24Ⓐ	24V, 0~4A	±1.0%	150mV	91.0%
HVG-100-30Ⓐ	30V, 0~3.2A	±1.0%	200mV	91.0%
HVG-100-36Ⓐ	36V, 0~2.65A	±1.0%	200mV	90.5%
HVG-100-42Ⓐ	42V, 0~2.28A	±1.0%	200mV	90.5%
HVG-100-48Ⓐ	48V, 0~2A	±1.0%	200mV	91.0%
HVG-100-54Ⓐ	54V, 0~1.77A	±1.0%	200mV	91.0%

○ = A, B, AB or D

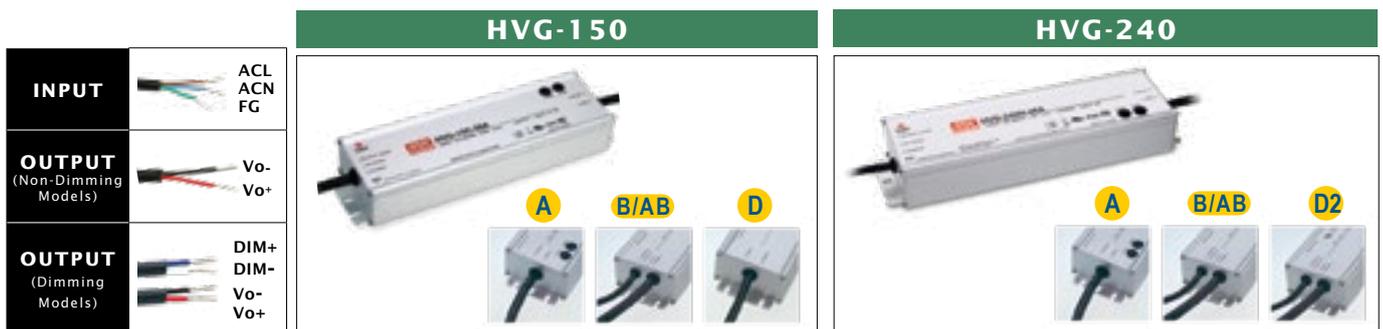
○ = A, B, AB or D

HVG series 150~240W

Features

- Constant voltage+constant current modes
- 180~528VAC wide input range
- Type HL LED Driver for use in Class I, Division 2 hazardous location luminaires
- Suitable for dry, damp, and wet location
- Suitable for outdoor LED lighting applications
- Protections: Short circuit / Over current / Over voltage / Over temperature
- 5 years warranty

- Multiple models for choice:
 - A-Type:** IP65 rated. Io and Vo adjustable through built-in potentiometer
 - B-Type:** IP67 rated. 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)
 - AB-Type:** IP65 rated. Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function.
 - D-Type (option):** IP67 rated. Timer dimming function, contact MEAN WELL for details (HVG-150 only)
 - D2-Type (option):** IP67 rated. **Smart timer dimming function*** (HVG-240 only)



AC input voltage range	180~528VAC (single phase); 254~747VDC	
AC inrush current (max.)	Cold start, 35A at 480VAC	Cold start, 50A at 480VAC
DC adjustment range	±10% rated output voltage (A-Type only)	±7% rated output voltage (A-Type only)
Current adjustment range	55%~100% via potentiometer (A-Type only)	50%~100% via potentiometer (A-Type only)
Over current protection	95%~108% constant current limiting, auto-recovery	
Over voltage protection	110%~140% rated output voltage	
Over temperature protection	Shut down and latch off o/p voltage, re-power on to recover	
Setup, rise, hold up time	500ms, 80ms, 18ms at full load and 347VAC/480VAC	500ms, 150ms, 12ms at full load and 347VAC/480VAC
Withstand voltage	I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC	
Working temperature	-40~+85°C (refer to "OUTPUT LOAD vs TEMPERATURE")	-40~+90°C (refer to "OUTPUT LOAD vs TEMPERATURE")
Safety standards	UL8750, CSA C22.2 No. 250.0-08, EAC TP TC 004	
EMC standards	EN55015, EN61000-3-2 class C, EAC TP TC 020, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547, FCC part 15 subpart B	FCC Part 15 subpart B, EAC TP TC 020, EN61000-4-2,3,4,5,6,8,11, EN61547
Connection	Input	UL rated, STW 18AWGx3C (30cm)
	Output	A&D-Type: SJTW 14AWGx2C (30cm) B/AB-Type: SJTW 14AWGx2C (30cm)+ UL2517 18AWGx2C (30cm)
Dimension (LxWxH)(mm)	245x 68x 38.8	254.2x 68x 38.8

HVG-150 Series



Model No.	Output	Tol.	R&N	Effi.
HVG-150-12(A)	12V, 0~10A	±2.5%	150mV	87.0%
HVG-150-15(A)	15V, 0~10A	±2.0%	150mV	89.0%
HVG-150-20(A)	20V, 0~7.5A	±1.0%	150mV	90.5%
HVG-150-24(A)	24V, 0~6.25A	±1.0%	150mV	91.0%
HVG-150-30(A)	30V, 0~5A	±1.0%	200mV	91.0%
HVG-150-36(A)	36V, 0~4.17A	±1.0%	200mV	91.0%
HVG-150-42(A)	42V, 0~3.58A	±1.0%	200mV	91.0%
HVG-150-48(A)	48V, 0~3.13A	±1.0%	200mV	91.5%
HVG-150-54(A)	54V, 0~2.78A	±1.0%	200mV	91.5%

HVG-240 Series



Model No.	Output	Tol.	R&N	Effi.
HVG-240-24(A)	24V, 0~10A	±1%	150mV	92.5%
HVG-240-30(A)	30V, 0~8A	±1%	200mV	92.5%
HVG-240-36(A)	36V, 0~6.7A	±1%	250mV	93%
HVG-240-42(A)	42V, 0~5.7A	±1%	250mV	93%
HVG-240-48(A)	48V, 0~5A	±1%	250mV	92.5%
HVG-240-54(A)	54V, 0~4.5A	±1%	350mV	93%

○ = A, B, AB or D

○ = A, B, AB or D2

*MEAN WELL Smart timer dimming primarily provides the adaptive proportion dimming profile for the output constant current level.

HVG series 320~480W

Features

- Constant voltage+constant current modes
- 180~528VAC wide input range
- Type HL LED Driver for use in Class I, Division 2 hazardous location luminaires
- Suitable for dry, damp, and wet location
- Suitable for outdoor LED lighting applications
- Protections: Short circuit / Over current / Over voltage / Over temperature
- 5 years warranty

• Multiple models for choice:

A-Type: IP65 rated. Io and Vo adjustable through built-in potentiometer

B-Type: IP67 rated. 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)

AB-Type: IP65 rated. Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function.

D2-Type (option): IP67 rated. **Smart timer dimming function***, contact MEAN WELL for details



AC input voltage range	180~528VAC ; 254~747VDC		
AC inrush current (max.)	Cold start 50A at 480VAC	Cold start 40A at 480VAC	
DC adjustment range	-10%~+8% rated output voltage (A-Type only)	-15%~+5% rated output voltage	
Current adjustment range	50%~100% via potentiometer (A-Type only)		
Over current protection	95%~108% constant current limiting, auto-recovery		
Over voltage protection	110%~140% shut down o/p voltage, re-power on to recover	108%~125%	
Over temperature protection	Shut down and latch off o/p voltage, re-power on to recover		
Setup, rise, hold up time	500ms, 150ms, 15ms at full load and 347VAC/480VAC	500ms, 100ms, 16ms at full load and 347VAC/480VAC	
Withstand voltage	I/P-O/P: 3.75KVAC, I/P-FG:2KVAC, O/P-FG:1.5KVAC		
Working temperature	-40~+85°C (refer to "OUTPUT LOAD vs TEMPERATURE")		
Safety standards	UL8750, CSA C22.2 No. 250.13-12, EAC TP TC 004		
EMC standards	FCC Part 15 Subpart B, EAC TP TC 020, EN61000-4-2,3,4,5,6,8,11, EN61547	FCC Part 15 Subpart B, EAC TP TC 020	
Connection	Input	UL rated, STW 18AWGx3C (30cm)	
	Output	A-Type	SJTW 14AWGx2C (30cm)
		B/AB/D2-Type	SJTW 14AWGx2C (30cm) + UL2517 22AWGx2C (30cm)
Dimension (LxWxH)(mm)	262x 90x 43.8	262x 125x 43.8	

HVG-320 Series

Model No.	Output	Tol.	R&N	Effi.
HVG-320-24 (A)	24V, 0~13.4A	±1%	150mV	92.5%
HVG-320-30 (A)	30V, 0~10.7A	±1%	200mV	93.0%
HVG-320-36 (A)	36V, 0~8.9A	±1%	250mV	93.5%
HVG-320-42 (A)	42V, 0~7.6A	±1%	250mV	93.5%
HVG-320-48 (A)	48V, 0~6.7A	±1%	250mV	94.0%
HVG-320-54 (A)	54V, 0~6A	±1%	350mV	94.0%

○ = A, B, AB or D2

HVG-480 Series

Model No.	Output	Tol.	R&N	Effi.
HVG-480-24 (A)	24V, 0~20A	±1%	200mV	94.0%
HVG-480-30 (A)	30V, 0~16A	±1%	200mV	94.0%
HVG-480-36 (A)	36V, 0~13.3A	±1%	250mV	94.5%
HVG-480-42 (A)	42V, 0~11.4A	±1%	250mV	95.0%
HVG-480-48 (A)	48V, 0~10A	±1%	250mV	95.0%
HVG-480-54 (A)	54V, 0~8.9A	±1%	350mV	95.0%

○ = A, B, AB or D2

*MEAN WELL Smart timer dimming primarily provides the adaptive proportion dimming profile for the output constant current level.

HVGC series 65~150W

Features

- Constant current mode
- 180~528VAC wide input range
- High efficiency up to 91%
- Type HL LED Driver for use in Class I, Division 2 hazardous location luminaires (HVGC-150)
- Suitable for dry, damp, and wet location
- Suitable for outdoor LED lighting applications
- Protections: Short circuit / Over voltage / Over temperature
- 5 years warranty

- Multiple models for choice:

A-Type: IP65 rated. Io adjustable through built-in potentiometer
B-Type: IP67 rated. 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)

AB-Type: IP65 rated. Io adjustable through built-in potentiometer & 3 in 1 dimming function.

D-Type (option): IP67 rated. Timer dimming function, contact MEAN WELL for details



AC input voltage range	180~528VAC (single phase); 254~747VDC		
AC inrush current (max.)	Cold start, 25A at 480VAC	Cold start, 35A at 480VAC	
Current adjustment range	60%~100% via potentiometer (A-Type only)		
Over voltage protection	105%~115% rated output voltage		
Setup time	400ms at 347VAC/480VAC	500ms at 347VAC/480VAC	400ms at 347VAC/480VAC
Withstand voltage	I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC		
Working temperature	-40~+80°C (refer to "OUTPUT LOAD vs TEMPERATURE")		
Safety standards	HVGC-65: UL8750, ENEC EN61347-1, EN61347-2-13, EN62384, EAC TP TC 004 approved HVGC-100/150: UL8750, TUV EN61347-1, EN61347-2-13, EAC TP TC 004 approved		
EMC standards	EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547, FCC part 15 subpart B, EAC TP TC 020		
Connection	Input	UL rated, STW 18AWGx3C (30cm)	
	Output	A&D-Type	SJTW 18AWGx2C (30cm) STW 18AWGx2C (30cm)
		B/AB-Type	SJTW 18AWGx2C (30cm)+UL2517 18AWGx2C (30cm) STW 18AWGx2C (30cm)+UL2517 18AWGx2C (30cm)
Dimension (LxWxH)(mm)	189x 61.5x 36.8	236x 68x 38.8	245x 68x 38.8

HVGC-65 Series

Model No.	Output	Io Tol.	Io Ripple	Effi.
HVGC-65-350(A)	18~186V, 350mA	±5%	5% max.	90.0%
HVGC-65-500(A)	13~130V, 500mA	±5%	5% max.	90.5%
HVGC-65-700(A)	9~93V, 700mA	±5%	5% max.	90.5%
HVGC-65-1050(A)	6~62V, 1050mA	±5%	5% max.	90.0%

○ = A, B, AB or D

HVGC-100 Series

Model No.	Output	Io Tol.	Io Ripple	Effi.
HVGC-100-350(A)	29~285V, 350mA	±5%	5% max.	91%
HVGC-100-700(A)	15~142V, 700mA	±5%	5% max.	91%

○ = A, B, AB or D

HVGC-150 Series

Model No.	Output	Io Tol.	Io Ripple	Effi.
HVGC-150-350(A)	42~428V, 350mA	±5%	5% max.	91%
HVGC-150-500(A)	30~300V, 500mA	±5%	5% max.	91%
HVGC-150-700(A)	21~215V, 700mA	±5%	5% max.	91%
HVGC-150-1050(A)	15~143V, 1050mA	±5%	5% max.	90%
HVGC-150-1400(A)	12~107V, 1400mA	±5%	5% max.	90%

○ = A, B, AB or D

HVGC series 240~320W

Features

- Constant current mode
- 180~528VAC wide input range
- High efficiency up to 93.5%
- Type HL LED Driver for use in Class I, Division 2 hazardous location luminaires
- Suitable for dry, damp, and wet location
- Suitable for outdoor LED lighting applications
- Protections: Short circuit / Over voltage / Over temperature
- 5 years warranty

- Multiple models for choice:
 - A-Type:** IP65 rated. Io adjustable through built-in potentiometer
 - B-Type:** IP67 rated. 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)
 - AB-Type:** IP65 rated. Io adjustable through built-in potentiometer & 3 in 1 dimming function.
 - D2-Type (option):** IP67 rated. **Smart timer dimming function***, contact MEAN WELL for details



AC input voltage range	180~528VAC ; 254~747VDC						
AC inrush current (max.)	Cold start, 50A at 480VAC						
Current adjustment range	50%~100% via potentiometer (A-Type only)						
Over voltage protection	105%~110% shut down o/p voltage, re-power on to recover						
Setup time	500ms at 347VAC/480VAC						
Withstand voltage	I/P-O/P:3.75KVAC, I/P-FG:2KVAC, O/P-FG:1.5KVAC						
Working temperature	-40~+90°C (refer to "OUTPUT LOAD vs TEMPERATURE")						
Safety standards	UL8750 (type"HL"), EAC TP TC 004 approved, IEC/EN61347-1,IEC/EN61347-2-13						
EMC standards	FCC Part 15 subpart B, EN55015, EN61000-3-2(@load≥50%), EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547, EAC TP TC 020						
Connection	Input	UL rated, STW 18AWGx3C (30cm)					
	Output	<table border="1"> <tr> <td>A-Type</td> <td>STW 18AWGx2C (30cm)</td> <td>SJTW 14AWGx2C (30cm)</td> </tr> <tr> <td>B/AB/D2-Type</td> <td>STW 18AWGx2C (30cm) + UL2517 22AWGx2C (30cm)</td> <td>SJTW 14AWGx2C (30cm) + UL2517 22AWGx2C (30cm)</td> </tr> </table>	A-Type	STW 18AWGx2C (30cm)	SJTW 14AWGx2C (30cm)	B/AB/D2-Type	STW 18AWGx2C (30cm) + UL2517 22AWGx2C (30cm)
A-Type	STW 18AWGx2C (30cm)	SJTW 14AWGx2C (30cm)					
B/AB/D2-Type	STW 18AWGx2C (30cm) + UL2517 22AWGx2C (30cm)	SJTW 14AWGx2C (30cm) + UL2517 22AWGx2C (30cm)					
Dimension (LxWxH)(mm)		<table border="1"> <tr> <td>254.2x 68x 38.8</td> <td>262x 90x 43.8</td> </tr> </table>	254.2x 68x 38.8	262x 90x 43.8			
254.2x 68x 38.8	262x 90x 43.8						

HVGC-240 Series

Model No.	Output	Io Tol.	Io Ripple	Effi.
HVGC-240-700(A)	171.4~342.8V, 700mA	±5%	5% max.	93.5%
HVGC-240-1050(A)	114.3~228.6V, 1050mA	±5%	5% max.	93.0%
HVGC-240-1400(A)	85.7~171.4V, 1400mA	±5%	5% max.	93.0%
HVGC-240-1750(A)	68.5~137.1V, 1750mA	±5%	5% max.	93.0%
HVGC-240-2100(A)	57.2~114.3V, 2100mA	±5%	5% max.	92.5%
HVGC-240-2800(A)	42.9~85.7V, 2800mA	±5%	5% max.	92.5%
HVGC-240-3500(A)	34.3~68.6V, 3500mA	±5%	5% max.	92.5%

HVGC-320 Series

Model No.	Output	Io Tol.	Io Ripple	Effi.
HVGC-320-700(A)	214~428V,700mA	±5%	5% max.	93.5%
HVGC-320-1050(A)	152.4~304.8V,1050mA	±5%	5% max.	93.5%
HVGC-320-1400(A)	114.3~228.6V,1400mA	±5%	5% max.	93.5%
HVGC-320-1750(A)	91.4~182.8V,1750mA	±5%	5% max.	93.5%
HVGC-320-2100(A)	76.2~152.4V,2100mA	±5%	5% max.	93.5%
HVGC-320-2800(A)	57~114.3V,2800mA	±5%	5% max.	93.5%
HVGC-320-3500(A)	45.7~91.4V,3500mA	±5%	5% max.	93%

○ = A, B, AB or D2

○ = A, B, AB or D2

*MEAN WELL Smart timer dimming primarily provides the adaptive proportion dimming profile for the output constant current level.

HVGC series 480~650W

Features

- Constant power mode
- 180~528VAC wide input range
- High efficiency up to 95.5%
- Type HL LED Driver for use in Class I, Division 2 hazardous location luminaires
- Suitable for dry, damp, and wet location
- Suitable for outdoor LED lighting applications
- Protections: Short circuit / Over voltage / Over temperature
- With auxiliary DC output power (optional for HVGC-650)
- 5 years warranty

• Multiple models for choice:

Blank-Type(option): IP67 rated. Io and Vo fixed. (For harsh environment) (HVGC-480 only)

AB-Type: IP67 rated. Standard constant power output with 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance) and built-in potentiometer

D2-Type (option): IP67 rated. Built-in Smart timer dimming and programmable function

DA-Type (option): IP67 rated. DALI control technology (HVGC-650 only)

ADA-Type(option): IP65 rated. DALI control technology with Io adjustable via build-in Potentiometer (HVGC-480 only)



AC input voltage range	180~528VAC ; 254~747VDC	
AC inrush current (max.)	Cold start, 40A at 480VAC	
Current adjustment range	50%~100% via potentiometer (A-Type only)	
Over voltage protection	105%~110% shut down o/p voltage, re-power on to recover	
Setup time	500ms at 347VAC/480VAC	
Withstand voltage	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC	I/P-O/P:4.2KVAC I/P-FG:2.1KVAC O/P-FG:1.5KVAC
Working temperature (Tcase)	-40~+90°C (refer to "OUTPUT LOAD vs TEMPERATURE")	
Safety standards	UL8750, CSA C22.2 No. 250.13-12, IP65 or IP67, EAC TP TC 004 approved	
EMC standards	FCC Part 15 subpart B, EN61000-4-2,3,4,5,6,8,11, EN61547, EAC TP TC 020	
Connection	Please refer to page 65	
Dimension (LxWxH)(mm)	262x 125x 43.8	280x 144x 48.5

HVGC-480 Series

Model No.	Output	Io Tol.	Io Ripple	Effi.
HVGC-480-L- <input type="checkbox"/> AB	137~343V, 1400~1750mA	±5%	5% max.	94.5%
HVGC-480-M- <input type="checkbox"/> AB	92~228.5V, 2100~2625mA	±5%	5% max.	94.5%
HVGC-480-H- <input type="checkbox"/> AB	68~171.5V, 2800~3500mA	±5%	5% max.	94.5%

HVGC-650 Series

Model No.	Output	Io Tol.	Io Ripple	Effi.
HVGC-650○-L- <input type="checkbox"/> AB	93~232V, 2800~3500mA	±5%	5% max.	95%
HVGC-650○-M- <input type="checkbox"/> AB	62~155V, 4200~5250mA	±5%	5% max.	95%
HVGC-650○-H- <input type="checkbox"/> AB	47~116V, 5600~7000mA	±5%	5% max.	95%
HVGC-650○-U- <input type="checkbox"/> AB	24~58V, 11200~14000mA	±5%	5% max.	95.5%

= AB, blank, D2 or ADA

○ = Blank, A ;
 Blank: without auxiliary function, A: with auxiliary DC output power = AB, D2 or DA

*MEAN WELL Smart timer dimming primarily provides the adaptive proportion dimming profile for the output constant current level.

HVGC series 1000W

Features

- Constant power mode output
- Wide input range 180~528VAC with active PFC
- Metal housing with Class I design
- Surge protection with 8KV/4KV
- Suitable for outdoor LED lighting applications
- Auxiliary DC output available
- 5 years warranty
- Protections: Short circuit / Over voltage / Over temperature
- Multiple models for choice:
 - AB-Type:** IP67 rated. Standard constant power output with 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance) and built-in potentiometer
 - D2-Type (option):** IP67 rated. Built-in Smart timer dimming and programmable function
 - DA-Type (option):** IP67 rated. DALI 2.0 control technology with I_o adjustable via built-in Potentiometer



AC input voltage range	180~528VAC; 254~747VDC
AC inrush current (max.)	Cold start 40A at 480VAC
Current adjustment range	50%~100% via potentiometer (AB-Type only)
Over voltage protection	105%~110% shut down o/p voltage, re-power on to recover
Setup time	500ms/230VAC, 347VAC, 480VAC
Withstand voltage	I/P-O/P:4.2KVAC I/P-FG:2.1KVAC O/P-FG:1.5KVAC
Working temperature (Tcase)	-40~+90°C (refer to "OUTPUT LOAD vs TEMPERATURE")
Safety standards	UL8750 (type"HL"), CSA C22.2 No. 250.13-14, ENEC EN61347-1, EN61347-2-13 independent, EN62384, CCC GB19510.1,GB19510.14; EAC TP TC 004, IP67 approved EAC TP TC 004 ,IP67, approved
EMC standards	FCC Part 15 class B,EN55015, EN61000-3-2 Class C (@ load≥50%); EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EAC TP TC 020, EN61547, CCC GB/T17743 and GB17625
Connection	Please refer to page 65
Dimension (LxWxH)(mm)	310x 144x 48.5

HVGC-1000 Series



Model No.	Output	I _o Tol.	I _o Ripple	Effi.
HVGC-1000A-L- <input type="checkbox"/> AB	150~380V, 1320~3280mA	±5%	3% max.	95.5%
HVGC-1000A-M- <input type="checkbox"/> AB	95~240V, 2100~5250mA	±5%	3% max.	96%
HVGC-1000A-H- <input type="checkbox"/> AB	70~180V, 2800~7000mA	±5%	3% max.	96%

= AB, D2 or DA

*MEAN WELL Smart timer dimming primarily provides the adaptive proportion dimming profile for the output constant current level.

FDL&FDHC series 65~100W

Features

- Constant current mode output (FDL-65)
- Constant power mode output (FDLC-80/100, FDHC-100)
- IP65 design (FDL-65)
- IP67 design (FDLC-80/100, FDHC-100)
- Output current adjustable via potentiometer
- Full power at 70~100% max. current (FDLC-80/100, FDHC-100)
- No load power consumption < 0.5W
- Suitable for LED flood light
- Protections: Short circuit / Over voltage / Over temperature (FDL-65)
- Short circuit / Over temperature (FDLC-80/100, FDHC-100)
- 3 years warranty



AC input voltage range	180~295VAC; 254~417VDC			
Input over voltage protection	---	---	---	305 ~ 315VAC (Shut down output voltage when the input voltage exceeds protection voltage)
Over temp. protection	Hiccup mode, auto-recovery after fault condition is removed		Shut down output voltage, recovers automatically after fault condition is removed	
Withstand voltage	I/P-O/P:3.75KVAC, I/P-FG:2KVAC, O/P-FG:1.5KVAC			
Working Temperature	-40~+90°C		-30~+90°C (refer to "OUTPUT LOAD vs TEMPERATURE" section)	
Safety Standards	EN61347-1, EN61347-2-13, EN62384 (except for FDL-65), GB19510.1 (except for FDHC-100), GB19510.14 (except for FDHC-100), EAC TP TC 004 (except for FDHC-100), IP67 (FDL-65 approved IP65) approved			
EMC Standards	EN55015, EN61000-3-2 Class C, EN61000-3-3, EN61547, GB17743 (except for FDHC-100), GB17625.1 (except for FDHC-100), EAC TP TC 020 (except for FDHC-100), EN61000-4-2, 3, 4, 5, 6, 8, 11			
Connection	Input	H05RN 1.0mm ² *2C	H05RN 1.0mm ² *3C	
	Output	H05RN 1.0mm ² *2C		
Dimension (LxWxH)(mm)	151 x 53 x 31.5		180 x 53 x 33	

FDL-65 Series

Model No.	Output	Io	Tol.	Effi.
FDL-65-1550	25.2~42V	770~1550mA	±5%	90%
FDL-65-1800	21.6~36V	900~1800mA	±5%	90%

FDLC-100 Series

Model No.	Output	Tol.	Effi.
FDLC-100	30~54V, 1300~3000mA	±5%	90%

FDLC-80 Series

Model No.	Output	Tol.	Effi.
FDLC-80	30~54V, 1000~2100mA	±5%	90%

FDHC-100 Series

Model No.	Output	Tol.	Effi.
FDHC-100L	96~142V, 490~1050mA	±5%	90%
FDHC-100H	30~54V, 1300~3000mA	±5%	90%

Globally Certified Cable Adoption for HLG/HVGC

HLG-40H/60H/80H/100H/120H Series

Connection	Input	SJOW 17AWG & H05RN-F 1.0mm ² x3C (30cm)
	Output	A/D/Blank-Type: SJOW 17AWG & H05RN-F 1.0 mm ² x2C (30cm); B/AB-Type: SJOW 17AWG & H05RN-F 1.0 mm ² x2C (30cm) + SJOW 17AWG & H05RN-F 1.0mm ² x2C (30cm)

HLG-150H/185H/240H Series

Connection	Input	SJOW 17AWG & H05RN-F 1.0mm ² x3C (30cm); Terminal block for HLG-240H C-Type
	Output	<ul style="list-style-type: none"> ▪ A/D/Blank-Type: SJOW 14AWGx2C (30cm) for 150H-12V, 185H-12~15V, 240H-12V~20V; SJOW 17AWG & H05RN-F1.0mm²x2C (30cm) for others ▪ B/AB-Type: SJOW 14AWGx2C (30cm) + SJOW 17AWG & H05RN-F1.0mm²x2C (30cm) for 150H 12V, 185H-12~15V, 240H-12V~20V; SJOW 17AWG & H05RN-F1.0mm²x2C (30cm) + SJOW 17AWG& H05RN-F1.0mm²x2C (30cm) for others ▪ C-Type: Terminal block for HLG-240H C-Type

HLG-320H Series

Connection	Input	<ul style="list-style-type: none"> ▪ A/B/D/Blank-Type: SJOW 17AWG & H05RN-F 1.0mm² x3C (30cm) ▪ C-Type: Terminal block
	Output	<ul style="list-style-type: none"> ▪ A/D/Blank-Type: SJOW 14AWGx2C (30cm) for 12V~30V ; SJOW 17AWG & H05RN-F1.0mm²x2C (30cm) for others ▪ B/AB-Type: SJOW 14AWGx2C (30cm) + SJOW 17AWG & H05RN-F1.0mm²x2C (30cm) for 12V~30V; SJOW 17AWG & H05RN-F1.0mm²x2C (30cm) + SJOW 17AWG & H05RN-F1.0mm²x2C (30cm) for others ▪ C-Type: Terminal block

HLG-480H Series

Connection	Input	A/B/D2/Blank-Type: SJOW 17AWGx3C & H05RN-F 3G 1.0mm ²
	Output	<ul style="list-style-type: none"> ▪ A/Blank-Type: SJOW 17AWGx2C & H05RN-F1.0mm² (30cm) + SJOW 17AWGx2C & H05RN-F2x1.0mm² (30cm) for 24~42V; SJOW 17AWGx2C & H05RN-F1.0mm² (30cm) for others ▪ B/AB/D2-Type: SJOW 17AWGx2C & H05RN-F1.0mm² (30cm) + SJOW 17AWGx2C & H05RN-F2x1.0mm² (30cm) + SJOW 17AWGx2C & H05RN-F1.0mm² (33cm) for 24V~42V SJOW 17AWGx2C & H05RN-F1.0mm² (30cm) + SJOW 17AWGx2C & H05RN-F2x1.0mm² (33cm) for others

HLG-600H Series

Connection	Input	SJTW 17AWGx3C (30cm)
	Output	A-Type: SJTW 14AWGx2C (30cm) + SJTW 14AWGx2C (30cm) + UL2517 22AWGx3C(30cm) B/AB-Type: SJTW 14AWGx2C (30cm) + SJTW 14AWGx2C (30cm) + UL2517 22AWGx3C(30cm) + UL2517 18AWGx2C (30cm)

HLG-60H/80H/120H-C Series

		HLG-60H/80H-C	HLG-120H-C
Connection	Input	SJOW 17AWG & H05RN-F 1.0mm ² x3C(30cm)	
	Output	A&D-Type: SJOW 17AWG & H05RN-F 1.0mm ² x2C(30cm) B/AB-Type: SJOW 17AWG & H05RN-F 1.0mm ² x2C(30cm)	A&D-Type: SOOW 17AWG & H07RN-F 1.0mm ² (30cm) for HLG-120H-C350; SJOW 17AWG & H07RN-F 1.0mm ² (30cm) for others B-Type: SJOW 17AWG & H07RN-F 1.0mm ² x2C(30cm) + SOOW 17AWG & H07RN-F 1.0mm ² (30cm) for HLG-120H-C350; SJOW 17AWG & H07RN-F 1.0mm ² x2C (30cm) + SJOW 17AWG & H07RN-F 1.0mm ² x2C (30cm) for others

HLG-185H/240H-C Series

		HLG-185H-C	HLG-240H-C
Connection	Input	SJOW 17AWG & H05RN-F1.0mm ² x3C (30cm)	
	Output	★A/D-Type: SJOW 17AWG & H05RN-F1.0mm ² x2C (30cm) ★B/AB-Type: SJOW 17AWG & H05RN-F1.0mm ² x2C (30cm)+ SJOW 17AWG & H05RN-F1.0mm ² x2C (30cm)	A-Type: SJOW 17AWG & H05RN-F1.0mm ² x2C (30cm) B/AB/D2-Type: SJOW 17AWG & H05RN-F1.0mm ² x2C (30cm)+ SJOW 17AWG & H05RN-F1.0mm ² x2C (30cm)

★ For the output cable of HLG-185H-C500 & C700 and HLG-240H-C700, please refer to the specification.

HLG-320H/480H-C Series

		HLG-320H-C	HLG-480H-C
Connection	Input	SJOW 17AWG & H05RN-F1.0mm ² x3C (30cm)	
	Output	★ A-Type: SJOW17AWG & H05RN-F1.0mm ² x2C (30cm) ★ B/AB/DA/D2-Type: SJOW17AWG & H05RN-F1.0mm ² x2C (30cm)+ SJOW17AWG & H05RN-F1.0mm ² x2C (30cm)	A-Type: SOOW17AWG & H07RN-F 2x1.0mm ² (30cm) B/AB/D2-Type: SOOW17AWG & H07RN-F 2x1.0mm ² (30cm)+ SOOW17AWG & H07RN-F2x1.0mm ² (30cm)

★ For the output cable of HLG-320H-C700 & C1050 and HLG-480H-C1400 & C1750, please refer to the specification.

HVGC-480 Series

Connection	Input	AB-Type: SOOW 17AWGx3C & H07RN-F 3x1.0mm ² (30cm)
	Output	AB/D2/DA-Type: SOOW 17AWGx2C & H07RN-F 2x 1.0mm ² (30cm)+SJOW 17AWGx2C & H07RN-F 2x1.0mm ² (30cm) Blank-Type: SOOW 17AWGx2C & H07RN-F 2x 1.0mm ² (30cm)

HVGC-650/1000 Series

		HVGC-650	HVGC-1000
Connection	Input	SOOW 17AWGx3C & H07RN-F 2x1.0mm ² (30cm)	
	Output	SOOW 17AWGx4C & H05RN-F 2x1.0mm ² (30cm)	
	DIM	SOOW 17AWGx2C & H05RN-F 2x1.0mm ² (30cm)	
	AUX	SOOW 17AWGx2C & H05RN-F 2x1.0mm ² (30cm)	

Circular Metal Case

with PFC

67 XBG Series (100~240W)

68 HBG Series (60~240W)

70 HBGC Series (300W)

Non PFC

71 ERP Series (200~350W)

71 ERPF Series (400W)



SHEENLY

The common application of bay lighting and flood light are in warehouses or stadiums. Conventional bay lights are operated with mercury bulbs or MHL multi-metal bulbs, so there are concerns on power consumption and pre-heating before turn-on. To tackle such application in the market, MEAN WELL specifically develops circular shape patent design LED driver, HBG-60/100/160/200/240 and 300W series. In addition, 0-10V or DALI dimming functions are provided for smart lighting control. Other outdoor power supplies such as XLG/ELG(C)/HLG(C)/HVG(C) series can also be used in the bay light and flood light fixtures. MEAN WELL is not only the leader in (UFO) bay lighting design, but makes LED bay lighting utilization much more convenient.

The new highlight of this year is the new XBG-100/160/240 series (100/160/240W), which adopts the constant power mode design, offering more flexibility for pairing with various luminaires.

Application

XBG/HBG Series



ERP Series



XBG series 100~240W

Features

- Full power output at 70~100% constant power mode operation
 - Wide input range 90 ~ 305VAC with active PFC function
 - Patented metal housing design with IP67
 - AC input cable with connector type for flexible installation
 - Protections: Short circuit / Over voltage / Over temp.
 - Isolation design between output and dimming circuit
 - 5 years warranty
- Multiple models for choice
 - A-Type:** IP67 rated. constant power adjustable via built-in potentiometer
 - AB-Type:** IP67 rated. constant power adjustable via built-in potentiometer & 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistor)

		XBG-100	XBG-160	XBG-240
INPUT (AC with connector)				
INPUT (Fixed cable)	ACL ACN FG			
OUTPUT (Non-Dimming Models)	Vo- Vo+			
OUTPUT (Dimming Models)	DIM+ DIM- Vo- Vo+			
AC input voltage range	90~305VAC			
AC inrush current (max.)	Cold start, 50A at 230VAC		Cold start, 75A at 230VAC	
Setup time	500ms/230VAC, 1200ms/115VAC	500ms/230VAC, 2000ms/115VAC	500ms/230VAC, 1200ms/115VAC	
Withstand voltage	I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC			
Working temperature	-40~+90°C (refer to "OUTPUT LOAD vs TEMPERATURE")			
Safety standards	UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC EN61347-1, EN61347-2-13 independent, EN62384; GB19510.1, GB19510.14; IP67 approved			
EMC standards	EN55015, EN61000-3-2 Class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11; EN61547, GB17743, GB17625.1, EAC TP TC 020			
Connection	Input	SJOW 17AWGx3C & H05RN-F 3x 1.0mm ² (30cm)		
	Output	A & A-C Type: SJTW 18AWGx2C (20cm) AB & AB-C Type: SJTW 18AWGx2C (20cm) +UL2517 22AWGx2C (30cm)		
Dimension (DxH)(mm)	φ130x 56	φ151.5x 60	φ191x 63	

XBG-100 Series



Model No.	Output	Io Tol.	Io Ripple	Effi.
XBG-100-□-○	27~56V, 875~2780mA	±5%	3.0% (max)	92%

XBG-160 Series



Model No.	Output	Io Tol.	Io Ripple	Effi.
XBG-160-□-○	34~56V, 1425~4100mA	±5%	5.0% (max)	93%

XBG-240 Series



Model No.	Output	Io Tol.	Io Ripple	Effi.
XBG-240-□-○	30~60V, 2850~5700mA	±5%	4.0% (max)	93%

□ = A, AB
○ = Blank, C; Blank: AC input with fixed cable, C: AC input with connector

AC input with connector Pin No: Assignment

Pin No.	Assignment	Drawing
1	AC/L	
2	AC/N	
3	FG ±	

AC input cable (Additional cost)

Item	Order part NO.	Remark
100cm	F61-XBG-AC-CABLE-100	In stock
200cm	F61-XBG-AC-CABLE-200	By request
300cm	F61-XBG-AC-CABLE-300	By request

* 100cm without MOQ, others with MOQ.

HBC series 60~160W

Features

- Constant current mode (HBC-60/100)
- Constant voltage+constant current modes (HBC-160)
- Universal AC input 90 to 305VAC
- Patented metal housing design for HBC-100/160
- Fully isolated plastic case (HBC-60)
- Type HL LED Driver for use in Class I, Division 2 hazardous location luminaires (HBC-100/160)
- Isolation class II/2, no F.G. (HBC-60)
- Suitable for dry, damp, and wet location
- Protections: Short circuit / Over current / Over voltage / Over temp. (Short circuit / Over temp. for HBC-60)

- Multiple models for HBC-100/160

Blank-Type: IP67 rated. Cable for I/O connection (For harsh environment)

A-Type: IP65 rated. Constant current level can be adjusted through internal potentiometer

B-Type: IP67 rated and built-in 3 in 1 dimming function (1~10VDC, PWM signal, or resistance)

AB-Type: IP65 rated. Constant current level can be adjusted through internal potentiometer, 3 in 1 dimming function

DA-Type: IP67 rated. DALI control technology

- 5 years warranty

	HBC-60	HBC-100(DA)	HBC-160(DA)
INPUT (HBC-60)			
INPUT (HBC-100/160/240)			
OUTPUT (Non-Dimming Models)			
OUTPUT (Dimming Models)			
AC input voltage range	90~295VAC ; 127~417VDC	90~305VAC ; 127~431VDC	
AC inrush current (max.)	Cold start, 45A at 230VAC	Cold start, 60A at 230VAC	Cold start, 65A at 230VAC
Setup, rise, hold up time	500ms at 230VAC for setup time	500ms, 80ms, 12ms at full load and 230VAC	500ms, 200ms, 12ms at full load and 230VAC
Withstand voltage	I/P-O/P: 3.75kVAC	I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC	
Working temperature	-40~+85°C (refer to "OUTPUT LOAD vs TEMPERATURE")		
Safety standards	UL8750, ENEC EN61347-1, EN61347-2-13, EN62384, GB19510.14, GB19510.1, EAC TP TC 004 approved		UL8750, TUV EN61347-1, EN61347-2-13, GB19510.14, GB19510.1, EAC TP TC 004 approved; Design refer to TUV EN62368
EMC standards	EN55015, EN61000-3-2 Class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11; EN61547, GB17743, GB17625.1, EAC TP TC 020		
Connection	Input	SJTW 18AWGx2C (30cm)	SJTW 18AWGx3C (30cm)
	Output	SVT 18AWGx2C (20cm)	A & Blank Type: SJTW 18AWGx2C (20cm) B Type: SJTW 18AWGx2C (20cm) + UL2517 22AWGx2C (30cm)
Dimension (DxH)(mm)	φ110x 60.5	φ130x 66.5	φ151.68x 66.5

HBC-60 Series (C.C. mode)

Model No.	Output	Io Tol.	Effi.
HBC-60-1050	37~55V, 1050mA	±5%	90%
HBC-60-1400	28~43V, 1400mA	±5%	89%
HBC-60-2100	19~29V, 2100mA	±5%	89%

HBC-100 Series (C.C. mode)

Model No.	Output	Io Tol.	Effi.
HBC-100-24(A)	24V, 0~4A	±5%	90.5%
HBC-100-36(A)	36V, 0~2.7A	±5%	91.0%

Model No.	Output	Io Tol.	Effi.
HBC-100-48(A)	48V, 0~2A	±5%	91.0%
HBC-100-60(A)	60V, 0~1.6A	±5%	91.5%

○ = A, B, AB, DA or Blank

HBC-160 Series

Model No.	Output	Tol.	Effi.
HBC-160-24(A)	24V, 0~6.5A	±2%	92.0%
HBC-160-36(A)	36V, 0~4.4A	±2%	92.0%
HBC-160-48(A)	48V, 0~3.3A	±2%	93.0%
HBC-160-60(A)	60V, 0~2.6A	±2%	93.5%

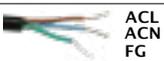
○ = A, B, AB, DA or Blank

HBC series 200~240W

Features

- Constant voltage+constant current modes
- Universal AC input (90 to 305VAC)
- High efficiency up to 93.5%
- Patented metal housing design
- Suitable for dry, damp, and wet location
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Optional RCM models available
- 5 years warranty

- Multiple models for choice:
 - Blank-Type:** IP67 rated. Cable for I/O connection(For harsh environment)
 - A-Type:** IP65 rated. Constant current level can be adjusted through internal potentiometer
 - B-Type:** IP67 rated and built-in 3 in 1 dimming function, PWM signal, or resistance, 0~10VDC(HBG-200), 1~10VDC(HBG-240)
 - AB-Type:** IP65 rated. Constant current level can be adjusted through internal potentiometer, 3 in 1 dimming function
 - DA-Type:** IP67 rated. DALI control technology

		HBG-200(DA)	HBG-240(DA)
INPUT			
INPUT			
OUTPUT			
AC input voltage range	90~305VAC ; 127~431VDC		
AC inrush current (max.)	Cold start, 85A at 230VAC	Cold start, 75A at 230VAC	
Setup, rise, hold up time	500ms, 200ms/230VAC; 2500ms, 200ms/115VAC		
Withstand voltage	I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC		
Working temperature	-40~+85°C (refer to "OUTPUT LOAD vs TEMPERATURE")		-40~+75°C (refer to "OUTPUT LOAD vs TEMPERATURE")
Safety standards	UL8750, ENEC EN61347-1, EN61347-2-13, EN62384, GB19510.14, GB19510.1, BIS IS15885(refer to spec for HBG-240 models), EAC TP TC 004		
EMC standards	EN55015, EN61000-3-2 Class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547, GB17743, GB17625.1,EAC TP TC 020		
Connection	Input	SJTW 18AWGx3C (30cm)	SJTW 18AWGx3C (30cm)
	Output	A & Blank-Type: SJTW 18AWGx2C (20cm) B & AB & DA-Type: SJTW 18AWGx2C (20cm)+ SVT 18AWGx2C (30cm)	A & Blank-Type: SJTW 18AWGx3C (30cm) B&DA-Type : SJTW 14AWGx2C (30cm) + SVT 18AWGx2C (30cm)
Dimension (DxH)(mm)	φ151.68x 66.5		φ191.5x 69

HBG-200 Series

(for DA-Type only)

UL US Type HL, 05, DALI, 0-10VDC, IFC, ENEC, CB, CE

Model No.	Output	Tol.	Effi.
HBG-200-36(A)	36V, 0~5.5A	±2%	92%
HBG-200-48(A)	48V, 0~4.1A	±2%	93%
HBG-200-60(A)	60V, 0~3.3A	±2%	93.5%

○ = A, B, AB, DA or Blank

HBG-240 Series

(for DA-Type only)

UL US, 05, DALI, 1-10VDC, IFC, ENEC, CB, CE

Model No.	Output	Tol.	Effi.
HBG-240-24(A)	24V, 0~10A	±2%	92.5%
HBG-240-36(A)	36V, 0~6.7A	±2%	92.5%
HBG-240-48(A)	48V, 0~5A	±2%	93.0%
HBG-240-60(A)	60V, 0~4A	±2%	93.5%

○ = A, B, AB, DA or Blank

HBGC series 300W

Features

- Constant power mode (full power at 60~100% max current)
 - Universal AC input (90 to 305VAC)
 - High efficiency up to 94.5%
 - Patented metal housing design
 - Isolation design between output and dimming circuit
 - Protections:
 - Short circuit / Over current / Over voltage / Over temperature
 - 5 years warranty
- Multiple models for choice:
 - A-Type:** IP67 rated. Constant power level can be adjusted through internal potentiometer
 - AB-Type:** IP67 rated and built-in 3 in 1 dimming function (0~10VDC, PWM signal, or resistance)
 - ADA-Type:** IP67 rated. DALI 2.0 control technology with I_o adjustable via build-in Potentiometer

		HBGC-300(ADA)						
		NEW						
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INPUT								
INPUT								
OUTPUT								
AC input voltage range		90~305VAC ; 127~431VDC						
AC inrush current (max.)		Cold start, 45A at 230VAC						
Withstand voltage		I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC						
Working temperature		Tcase=-40~+80°C (refer to "OUTPUT LOAD vs TEMPERATURE")						
Safety standards		UL8750(type "HL"), CSA C22.2 No. 250.13-12, ENEC EN61347-1, EN61347-2-13 independent, EN62384, EAC TP TC 004, GB19510.1, GB19510.14						
EMC standards		EN55015, EN61000-3-2 Class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547, GB17743, GB17625.1,EAC TP TC 020						
Connection	Input	SJTW 18AWGx3C (30cm)						
	Output	A-Type: SJTW 14AWGx2C (30cm) AB/DA-Type: SJTW 14AWGx2C (30cm)+UL2517 20AWGx2C (30cm)						
Dimension (DxH)(mm)		φ191.5x 69						

HBGC-300 Series









Model No.	Output	Tol.	Effi.
HBGC-300-L-□	116~232V, 650~2170mA	±5%	94.5%
HBGC-300-M-□	58~116V, 1300~4330mA	±5%	93.5%
HBGC-300-H-□	29~58V, 2600~8670mA	±5%	92.5%

□= A, AB or ADA



ERP series 200~400W

Features

- Constant voltage mode output
- Built-in active PFC function (for ERPF-400 only)
- Withstand 300VAC surge input for 5 seconds
- Design against rain splash
- LED indicator for power on
- Protections: Short circuit / Over voltage / Over temp.
- 3 years warranty

Applications

- LED strip lighting
- LED channel letters
- LED decoration lighting
- LED signage & display



AC input voltage range	180~264VAC ; 254~370VDC	90~264VAC ; 127~370VDC
AC inrush current	90A/230VAC	cold start45A/115VAC,90A/230VAC
Setup, rise time	1500ms, 200ms/230VAC	2000ms,100ms/230VAC;3000ms,100ms/115VAC at full load
Withstand voltage	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC	
Working temperature	-30~+60°C(Refer to output load derating curve)	
Safety standards	IEC/EN 62368-1, GB4943.1-2011(except for ERP-200-12), EAC TP TC 004, IS13252(Part1) approved	IEC/EN/UL 60950-1, CCC GB4943.1-2011, EAC TP TC 004, IS13252(Part1)(for ERPF-400-12/24 only) approved
EMC standards	EN55022 (CISPR22) class A, EN61000-4-5; light industry level, criteria A, EAC TP TC 020	EN55032 (CISPR32) class A, GB9254 classA, GB17625.1; EN61000-3-2;EN61000-3-3, EAC TP TC 020;EN61000-4-2,3,4,5,6,8,11;light industry level,criteria A
Dimension (DxH)(mm)	200x 120x 40	220.4x 130x 48

ERP-200 Series



Model No.	Output	Tol.	R&N	Effi.
ERP-200-12	12V, 0~16.8A	±1.0%	150mV	87%
ERP-200-24	24V, 0~8.33A	±1.0%	150mV	89%

ERP-350 Series



Model No.	Output	Tol.	R&N	Effi.
ERP-350-12	12V, 0~26.7A	±1.0%	150mV	87%
ERP-350-24	24V, 0~14.6A	±1.0%	150mV	89%
ERP-350-36	36V, 0~9.7A	±1.0%	240mV	90%
ERP-350-48	48V, 0~7.3A	±1.0%	240mV	90%

ERPF-400 Series



Model No.	Output	Tol.	R&N	Effi.
ERPF-400-12	12V, 0~30A	±1.0%	150mV	89%
ERPF-400-24	24V, 0~16.7A	±1.0%	150mV	90%
ERPF-400-48	48V, 0~8.3A	±1.0%	240mV	91%

PCB Type

with PFC

- 73 HBG-P Series (60~240W)
- 74 IDPV Series (25~65W)
- 75 IDPC Series (25~65W)
- 76 PLP Series (30~60W)
- 77 HLP Series (40~80W)



The PCB LED drivers provide customers for built-in design choice. All series with constant voltage output IDPV series and constant current output IDPC/PLP/HLP series, also circular shape HBG-P series, are designed with 0~10V and DALI dimming functions. (except for PLP series). The voltage input design is either 90-295V or 90-305V with the Class II/2 design for any luminaires design, to avoid luminaire lifetime issue. Please make sure the inside ambient temperature of the luminaire does not exceed the operating ambient temperature of LED driver specification.

Application



HBG-P series 60~240W

Features

- Constant current mode (HBG-60P/100P)
Constant voltage+constant current modes (HBG-160P/240P)
- Universal AC input (90 to 305VAC) / Full range (up to 295VAC for HBG-60P)
- High efficiency up to 93.5%
- Class II/2 power unit, no F.G. (HBG-60P)
- Suitable for dry, damp, and wet location
- Protections: Short circuit / Over temperature
- 5 years warranty

- Multiple models for HBG-100P/160P/240P
- A-Type:** Constant current level can be adjusted through internal potentiometer
- B-Type:** Built-in 3 in 1 dimming function (1~10VDC, PWM signal, or resistance)
- DA-Type:** DALI control technology

		HBG-60-P	HBG-100P HBG-100PDA	HBG-160P HBG-160PDA	HBG-240P
INPUT (HBG-60P)					
INPUT (HBG-100P/160P/240P)					
OUTPUT (Non-Dimming Models)					
OUTPUT (Dimming Models)					
AC input voltage range		90~295VAC ; 127~417VDC	90~305VAC ; 127~431VDC		
AC inrush current (max.)		Cold start, 45A at 230VAC	Cold start, 60A at 230VAC	Cold start, 65A at 230VAC	Cold start, 75A at 230VAC
Over temp. protection		Shut down o/p voltage, re-power on to recover		Shut down o/p voltage, auto-recovery	
Setup, rise, hold up time		500ms at 230VAC for setup time		500ms, 200ms, 12ms at full load and 230VAC	500ms, 120ms, 15ms at full load and 230VAC
Withstand voltage		I/P-O/P: 3.75kVAC			
Working temperature		-40~+70°C	-40~+45°C (refer to "OUTPUT LOAD vs TEMPERATURE")		
Safety standards		UL8750, ENEC EN61347-1, EN61347-2-13, EN62384, GB19510.14, GB19510.1, EAC TP TC 004 approved			
EMC standards		EN55015, EN61000-3-2 Class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547, GB17743, GB17625.1, EAC TP TC 020			
Connection	Input	UL1015 18AWGx2C (30cm)	SJTW 18AWGx3C (30cm)		
	Output	UL1015 18AWGx2C (30cm)	A Type: SJTW 18AWGx2C (20cm) B Type: SJTW 18AWGx2C (20cm) + UL2517 22AWGx2C (30cm)	A Type: SJTW 18AWGx2C (20cm) B Type: SJTW 18AWGx2C (20cm) + SVT 18AWGx2C (30cm)	A Type: SJTW 14AWGx2C (30cm) B Type: SJTW 14AWGx2C (30cm) + SVT 18AWGx2C (30cm)
Dimension (DxH)(mm)		φ99 x 26	φ104 x 34	φ124.6 x 34	φ144 x 31

HBG-60-P Series (C.C. mode)

Model No.	Output	Io Tol.	Effi.
HBG-60-1050P	37~55V, 1050mA	±5%	90%
HBG-60-1400P	28~43V, 1400mA	±5%	89%
HBG-60-2100P	19~29V, 2100mA	±5%	89%

HBG-100P Series (C.C. mode)

Model No.	Output	Tol.	Effi.
HBG-100P-36(A)	36V, 0~2.7A	±5%	91.0%
HBG-100P-48(A)	48V, 0~2A	±5%	91.0%
HBG-100P-60(A)	60V, 0~1.6A	±2%	91.5%

○ = A, B, or DA

HBG-160P Series

Model No.	Output	Tol.	Effi.
HBG-160P-36(A)	36V, 0~24.4A	±2%	92.0%
HBG-160P-48(A)	48V, 0~3.3A	±2%	93.0%
HBG-160P-60(A)	60V, 0~2.6A	±2%	93.5%

○ = A, B, or DA

HBG-240P Series

Model No.	Output	Tol.	Effi.
HBG-240P-36(A)	36V, 0~6.7A	±2%	92.5%
HBG-240P-48(A)	48V, 0~5A	±2%	93.0%
HBG-240P-60(A)	60V, 0~4.0A	±2%	93.5%

○ = A or B

IDPV series 25~65W

Features

- Constant voltage PWM style output mode
- IDPV-25/45: 90~295VAC input
- IDPV-65: 180~295VAC input only
- High efficiency up to 90%
- No load power consumption <0.5W (Blank-Type)
- Miniature PCB size
- Isolation class II, no F.G.
- Built-in 2 in 1 dimming function (0~10VDC or PWM signal)
- Built-in 12V/50mA auxiliary output (A-Type)
- Suitable for indoor LED strip lighting
- Protection: Short circuit
- 3 years warranty

	IDPV-25(A)	IDPV-45(A)	IDPV-65(A)
INPUT			
OUTPUT (Blank-Type)			
OUTPUT (A-Type)			
AC input voltage range	90 ~ 295VAC ; 127 ~ 417VDC		180 ~ 295VAC ; 254~417VDC
AC inrush current (max.)	Cold start, 30A at 230VAC		
Setup time	500ms / 230VAC		
PWM dimming signal	10V PWM signal, frequency range 300Hz~3kHz		
Total harmonic distortion	THD<20%		
Short circuit protection	Shut down o/p voltage, re-power on to recover		
Withstand voltage	I/P-O/P: 3.75KVAC		
Working temperature	-20~+45°C	-20~+40°C	
Safety standards	UL8750, ENEC EN61347-1, EN61347-2-13, EN62384, GB19510.14, GB19510.1 approved		
EMC standards	EN55015, EN61000-3-2 Class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547, GB17743, GB17625.1		
Connection (Input/Output)	Blank-Type: 4+4P push-in terminal block, A-Type: 4+6P push-in terminal block		
Dimension (LxWxH) mm	114.5x 72.5x 20	120 x 66.5 x 22	130 x 67.5 x 22

IDPV-25/25A Series



Model No.	Output	Tol.	Effi.
IDPV-25□-12	12V, 0~1.8A	±10%	80%
IDPV-25□-24	24V, 0~1.05A	±10%	81%
IDPV-25□-36	36V, 0~0.7A	±10%	82%
IDPV-25□-48	48V, 0~0.52A	±10%	83%
IDPV-25□-60	60V, 0~0.42A	±10%	84%

□ = Blank/A; Blank: without auxiliary output, A: with auxiliary function

IDPV-45/45A Series



Model No.	Output	Tol.	Effi.
IDPV-45□-12	12V, 0~3A	±10%	84%
IDPV-45□-24	24V, 0~1.88A	±10%	86%

Model No.	Output	Tol.	Effi.
IDPV-45□-36	36V, 0~1.25A	±10%	88%
IDPV-45□-48	48V, 0~0.94A	±10%	88%
IDPV-45□-60	60V, 0~0.75A	±10%	90%

□ = Blank/A; Blank: without auxiliary output, A: with auxiliary function

IDPV-65/65A Series



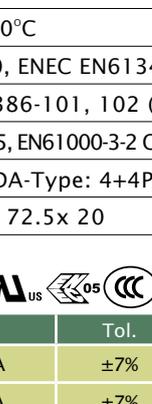
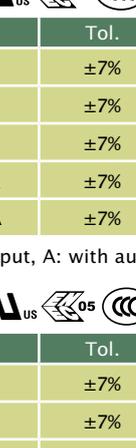
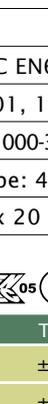
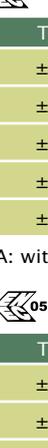
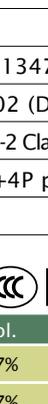
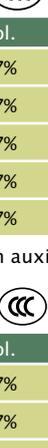
Model No.	Output	Tol.	Effi.
IDPV-65□-12	12V, 0~4.2A	±10%	85%
IDPV-65□-24	24V, 0~2.4A	±10%	87%
IDPV-65□-36	36V, 0~1.8A	±10%	88%
IDPV-65□-48	48V, 0~1.35A	±10%	89%
IDPV-65□-60	60V, 0~1.08A	±10%	90%

□ = Blank/A; Blank: without auxiliary output, A: with auxiliary function

IDPC series 25~65W

Features

- Constant current mode
- Flicker free design
- IDPC-25/45: 90~295VAC input
IDPC-65: 180~295VAC input only
- No load power consumption <0.5W (Blank/DA-Type)
No load power consumption <1.2W (A-Type)
- Miniature PCB size
- Isolation class II, no F.G.
- Built-in DALI interface (IDPC-45/65-DA)
- Built-in 2 in 1 dimming function (0~10VDC or PWM signal)
- Built-in 12V/50mA auxiliary output (A-Type)
- Suitable for indoor LED lighting applications
- Protection: Short circuit
- 3 years warranty

	IDPC-25(A)	IDPC-45(A) IDPC-45-DA	IDPC-65(A) IDPC-65-DA
INPUT			
OUTPUT (Blank/DA-Type)			
OUTPUT (A-Type)			
AC input voltage range	90 ~ 295VAC ; 127 ~ 417VDC		180 ~ 295VAC ; 254~417VDC
AC inrush current (max.)	Cold start, 30A at 230VAC		
Setup time	500ms / 230VAC		
Short circuit protection	Hiccup mode, auto-recovery		
Withstand voltage	I/P-O/P: 3.75KVAC		
Working temperature	-20~+50°C	-20~+40°C	
Safety standards	UL8750, ENEC EN61347-1, EN61347-2-13, EN62384, GB19510.14, GB19510.1, EAC TP TC 004 approved		
DALI standards	IEC 62386-101, 102 (DA-Type only)		
EMC standards	EN55015, EN61000-3-2 Class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547, GB17743, GB17625.1, EAC TP TC 020		
Connection (Input/Output)	Blank/DA-Type: 4+4P push-in terminal block, A-Type: 4+6P push-in terminal block		
Dimension (LxWxH) mm	114.5 x 72.5 x 20	120 x 66.5 x 25	130 x 67.5 x 20.5

IDPC-25/25A Series



Model No.	Output	Tol.	Effi.
IDPC-25□-350	49 ~ 70V, 350mA	±7%	82%
IDPC-25□-500	35 ~ 50V, 500mA	±7%	81.5%

□ = Blank/A; Blank: without auxiliary output, A: with auxiliary function

IDPC-25/25A Series



Model No.	Output	Tol.	Effi.
IDPC-25□-700	25 ~ 36V, 700mA	±7%	81.5%
IDPC-25□-1050	17 ~ 24V, 1050mA	±7%	80%

□ = Blank/A; Blank: without auxiliary output, A: with auxiliary function

IDPC-45/45A Series



Model No.	Output	Tol.	Effi.
IDPC-45□-350	57 ~ 95V, 350mA	±7%	86%
IDPC-45□-500	54 ~ 90V, 500mA	±7%	85%
IDPC-45□-700	38 ~ 64V, 700mA	±7%	85%
IDPC-45□-1050	26 ~ 43V, 1050mA	±7%	84%
IDPC-45□-1400	19 ~ 32V, 1400mA	±7%	83%

□ = Blank/A; Blank: without auxiliary output, A: with auxiliary function

IDPC-65/65A Series



Model No.	Output	Tol.	Effi.
IDPC-65□-700	69 ~ 93V, 700mA	±7%	89%
IDPC-65□-1050	46 ~ 62V, 1050mA	±7%	87%
IDPC-65□-1400	34 ~ 46V, 1400mA	±7%	86%
IDPC-65□-1750	27 ~ 36V, 1750mA	±7%	86%

□ = Blank/A; Blank: without auxiliary output, A: with auxiliary function

IDPC-45-DA Series



Model No.	Output	Tol.	Effi.
IDPC-45-350DA	57 ~ 95V, 350mA	±7%	86%
IDPC-45-500DA	54 ~ 90V, 500mA	±7%	85%
IDPC-45-700DA	38 ~ 64V, 700mA	±7%	85%
IDPC-45-1050DA	26 ~ 43V, 1050mA	±7%	84%
IDPC-45-1400DA	19 ~ 32V, 1400mA	±7%	83%

IDPC-65-DA Series

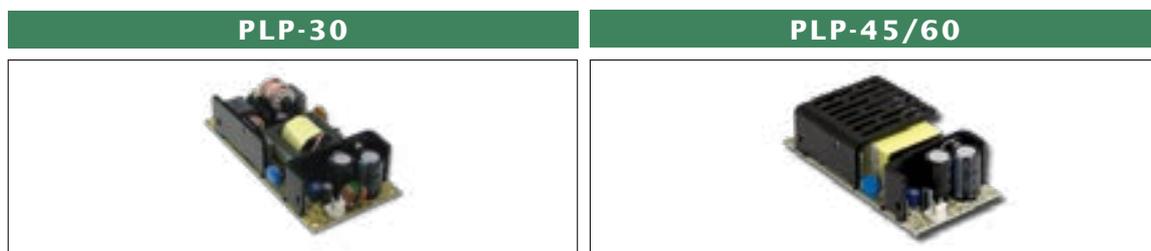


Model No.	Output	Tol.	Effi.
IDPC-65-700DA	69 ~ 93V, 700mA	±7%	89%
IDPC-65-1050DA	46 ~ 62V, 1050mA	±7%	87%
IDPC-65-1400DA	34 ~ 46V, 1400mA	±7%	86%
IDPC-65-1750DA	27 ~ 36V, 1750mA	±7%	86%

PLP series 30~60W

Features

- Constant current mode
- Universal AC input / Full range
- Class 2 power unit / Pass LPS
- Suitable for built-in LED lighting systems
- Protections: Short circuit / Over current / Over voltage
- Cooling by free air convection
- 2 years warranty



AC input voltage range	90~264VAC; 127~370VDC	
AC inrush current (max.)	Cold start, 25A at 230VAC	PLP-45: Cold start, 30A at 230VAC PLP-60: Cold start, 35A at 230VAC
Current adjustment range	75%~100%	
Over current protection	Range	100%~110%
	Type	Constant current limiting, auto-recovery
Setup time	500ms at full load and 230VAC	
Withstand voltage	I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC	
Working temperature	-30~+70°C (refer to "OUTPUT LOAD vs TEMPERATURE")	
Safety standards	UL8750, TUV EN61347-1, EN61347-2-13, EAC TP TC 004 approved	
EMC standards	EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547, EAC TP TC 020	
Connection	3+2P / 3.96mm pitch, JST P/N: B3P / B2P-VH	
Dimension (LxWxH)(mm)	101.6x 50.8x 26.6	101.6x 50.8x 29.6

PLP-30 Series



Model No.	Output	Tol.	R&N	Effi.
PLP-30-12	12V, 0~2.5A	±10%	2.0V	83.0%
PLP-30-24	24V, 0~1.3A	±10%	2.4V	85.5%
PLP-30-48	48V, 0~0.63A	±10%	4.8V	86.5%

Model No.	Output	Tol.	R&N	Effi.
PLP-45-24	24V, 0~1.9A	±10%	3.8V	89%
PLP-45-48	48V, 0~0.95A	±10%	4.8V	89%

PLP-45 Series



Model No.	Output	Tol.	R&N	Effi.
PLP-45-12	12V, 0~3.8A	±10%	4.2V	86%

PLP-60 Series



Model No.	Output	Tol.	R&N	Effi.
PLP-60-12	12V, 0~5.0A	±10%	4.5V	84%
PLP-60-24	24V, 0~2.5A	±10%	4.5V	88%
PLP-60-48	48V, 0~1.3A	±10%	4.8V	89%

▶ Special Symbols for EN61347-2-13

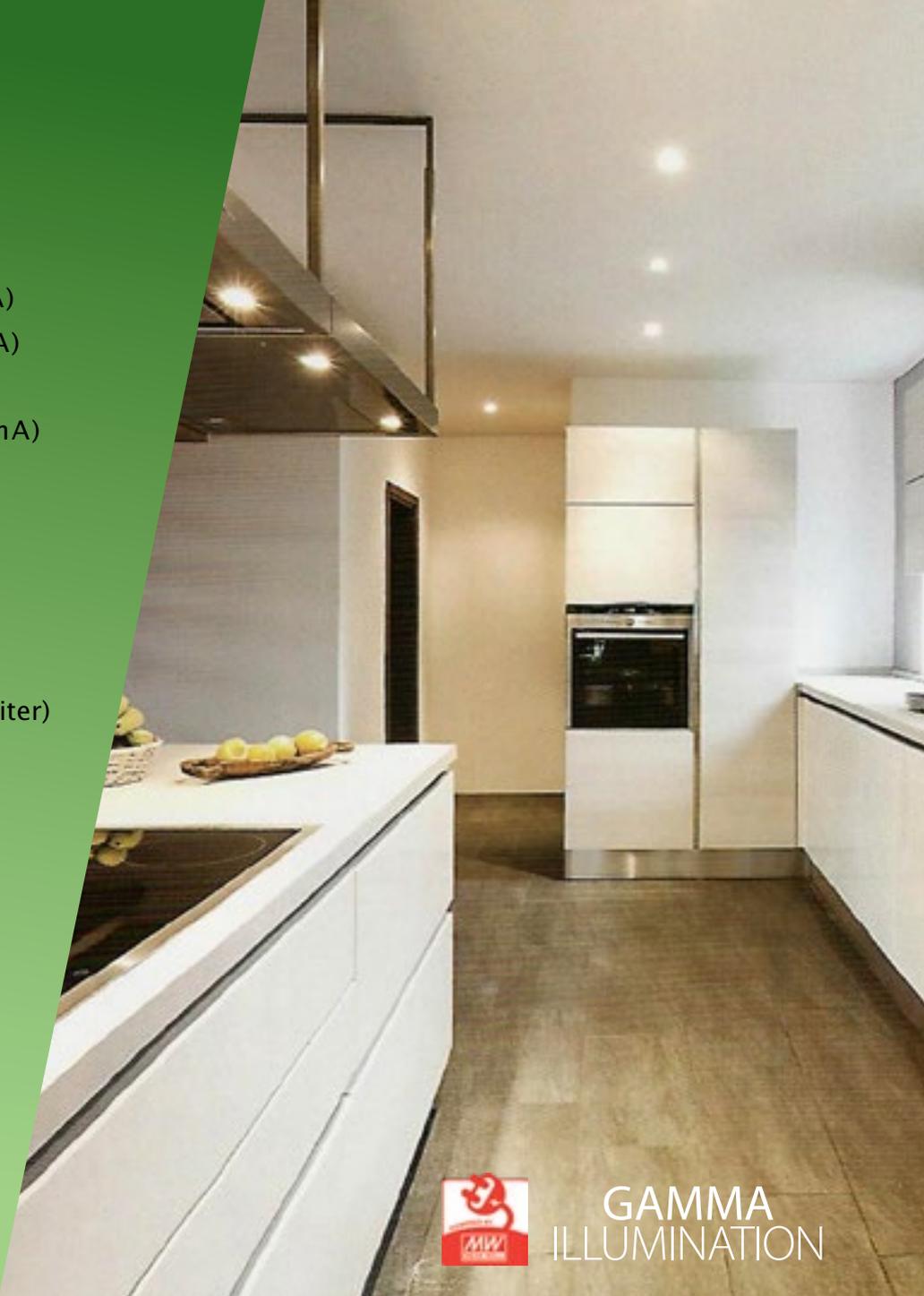
	Protection against overheating to prevent the lamp controlgear case temperature under any conditions of use from exceeding the indicated value (110°C)
	Suitable for direct mounting on normally flammable surfaces, such as wood (>2mm)
	Based on VDE0710-14, can be installed inside a wooden material like wooden cabinet. The minimum distance between the product enclosure to wooden material in each side is defined.
LPS	Limited power source
t _c : 80°C t _a : 40°C	Full load operation up to 40°C with surface temperature of case < 80°C
SELV	Vo < 120VDC can have this mark on the unit, also design with isolation between primary and secondary

DC-DC LED Driver

- 79 LDH Series (250~1750mA)
- 81 LDD-L Series (350~1500mA)
- 82 LDD-H Series (350~1500mA)
- 82 LDB-L Series (300~600mA)
- 83 LDD-DA Series (350~1400mA)

Accessory & Controller

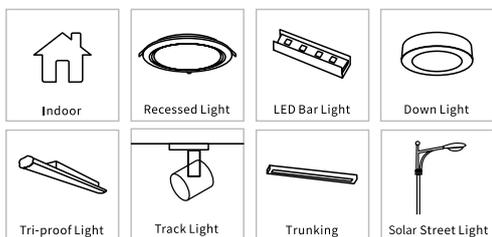
- 84 SPD Series
- 85 ICL-16R/L (Inrush current limiter)
- 85 PIR-045 (Motion sensor)
- 86 DAP Series
(DALI to PWM Converter)
- 87 SDP-001
(Smart Timer Dimming Programmer)
- 88 DLP-04
(DALI to Bus Power)
- 88 WPD-06
(EnOcean Dimmer Kit)



GAMMA
ILLUMINATION

DC-DC products are DC input, constant current output LED drives, which are mainly used in the DC voltage source environment. All 12V/24V/48V DC bus voltage can directly be used with this series to drive the LED engine(chip). LDD series is Step-Down design. LDB series is Buck-Boost and LDH is Step-up design. Users can choose a suitable product according to their own DC source environment. DC Bus design can reduce risk of electric shock and total cost of system. The PWM dimming and DALI dimming are also available. Besides, DC-DC driver can be applied to solar lighting solution with a controller, reducing design issue and optimizing the reliability.

Application



Selection guide

Topology	Series	DC source	Application
Step-Up	LDH	12V/24V	Solar lighting/Vehicle
Step-Down	LDD-H/LDD-L/LDDS-H	24V/48V/55V	48V DC Bus(Track light)
Buck-Boost	LDB-L	12V/24V	Vehicle/Yacht/DC Bus

LDH series 25-45W DC/DC LED Driver

Features

- Constant current step-up mode
- Wide input and output voltage range
- High efficiency up to 95%
- 2 in 1 dimming(0~10V, PWM)
- Comply with EN55015/FCC part 15 for radiation emission without Additional input filter and capacitors.
- Class III safety voltage application
- DALI dimming function for DA and WDA type(LDH-45)
- Fully enclosed plastic case (UL 94V-0)
- Economic, high reliability
- Protections: Short circuit / Over voltage / Under voltage
- 3 years warranty



Output current accuracy (Typ.)	±5% at 12V or 24V DC input (Typical)		±5% at 12VDC input for A type; ±5% at 24VDC input for B type (Typical)
Analog/PWM dimming & ON/OFF control	Remote ON/OFF	Leave open if not used ▪ Power ON with dimming: PWM DIM+ ~ DIM- > 0~10VDC or open circuit ▪ Power OFF: PWM DIM+ ~ DIM- < 0.5VDC or short	▪ Power ON with dimming: PWM DIM+ ~ DIM- > 2~8VDC or open circuit ▪ Power OFF: PWM DIM ~ DIM- < 0.5VDC or short
	PWM frequency	1KHz-3KHz 10V PWM signal or 0-10V DC input	1KHz-3KHz 8V PWM signal or 0-10V DC input
Short circuit protection	Power OFF and fuse open		
Over voltage protection	>115% rated output voltage		
Working temperature	-40~+70°C		
Safety standards	EN61347-1, EN61347-2-13, EAC TP TC 004 approved		
EMC standards	EN55015, EN61547, EN61000-4-2,3,4,6,8, EAC TP TC 020		
Dimension (LxWxH)(mm)	52.4x 27.2x 24		75x 53x 22.7

LDH-25 Series



Model No.	Input (VDC)	Output		Io Tol.	Effi.	Dimming
		Voltage (VDC)	Current (mA)			
LDH-25-250 ○	9.5~32	12~84	250	±5%	89%	0~10V PWM
LDH-25-350 ○	9.5~32	12~72	350	±5%	90%	
LDH-25-500 ○	9.5~32	12~50	500	±5%	90%	
LDH-25-700 ○	9.5~32	12~36	700	±5%	90%	

○=Blank, W; Blank: pin style, PWM+analog dimming; W: Wire style, PWM+analog dimming

LDH-45A/B Series



Model No.	Input (VDC)	Output		Io Tol.	Effi.	Dimming
		Voltage (VDC)	Current (mA)			
LDH-45A-350 ○	9~18	12~86	350	±5%	91%	Blank&W: PWM+Analog
LDH-45A-500 ○	9~18	12~86	500	±5%	90%	
LDH-45A-700 ○	9~18	12~64	700	±5%	90%	
LDH-45A-1050 ○	9~18	12~43	1050	±5%	91%	
LDH-45B-350 ○	18~32	21~126	350	±5%	93%	Blank&W: PWM+Analog
LDH-45B-500 ○	18~32	21~86	500	±5%	94%	
LDH-45B-700 ○	18~32	21~64	700	±5%	95%	
LDH-45B-1050 ○	18~32	21~43	1050	±5%	95%	

○=Blank, W; Blank: pin style, PWM+analog dimming; W: Wire style, PWM+analog dimming

LDH-45A/B-DA Series



Model No.	Input (VDC)	Output		Io Tol.	Effi.	Dimming
		Voltage (VDC)	Current (mA)			
LDH-45A-350 ○ DA	9~18	24~86	350	±5%	91%	DALI
LDH-45A-500 ○ DA	9~18	24~86	500	±5%	90%	
LDH-45A-700 ○ DA	9~18	24~64	700	±5%	90%	
LDH-45A-1050 ○ DA	9~18	24~43	1050	±5%	91%	
LDH-45B-350 ○ DA	18~32	36~126	350	±5%	93%	DALI
LDH-45B-500 ○ DA	18~32	36~86	500	±5%	94%	
LDH-45B-700 ○ DA	18~32	36~64	700	±5%	95%	
LDH-45B-1050 ○ DA	18~32	36~43	1050	±5%	95%	

○=Blank, W; Blank: pin style, DALI dimming; W: Wire style, DALI dimming

LDH series 65W DC/DC LED Driver

Features

- Constant current step-up mode
- Wide input and output voltage range
- High efficiency up to 90%
- 2 in 1 dimming(0~10V, PWM)
- Comply with EN55015/FCC part 15 for radiation emission without Additional input filter and capacitors.
- Class III safety voltage application
- Cooling by free air convection
- Fully encapsulated plastic case(UL 9440)
- Economic, high reliability
- Protections: Short circuit / Over voltage / Under voltage
- 3 years warranty

LDH-65



Output current accuracy (Typ.)	±5% at 12V or 24V DC input (Typical)	
Analog/PWM dimming & ON/OFF control	Remote ON/OFF	Leave open if not used ■ Power ON with dimming: PWM DIM+ ~ DIM-> 0~10VDC or open circuit ■ Power OFF: PWM DIM+ ~ DIM- < 0.5VDC or short
	PWM frequency	1KHz-3KHz 10V PWM signal or 0-10V DC input
Short circuit protection	Power OFF and fuse open	
Working temperature	-40~+60°C	
Safety standards	EN61347-1, EN61347-2-13, EAC TP TC 004 approved	
EMC standards	EN55015, EN61547, EN61000-4-2,3,4,6,8, EAC TP TC 020	
Dimension (LxWxH)(mm)	75x 53x 22.7	

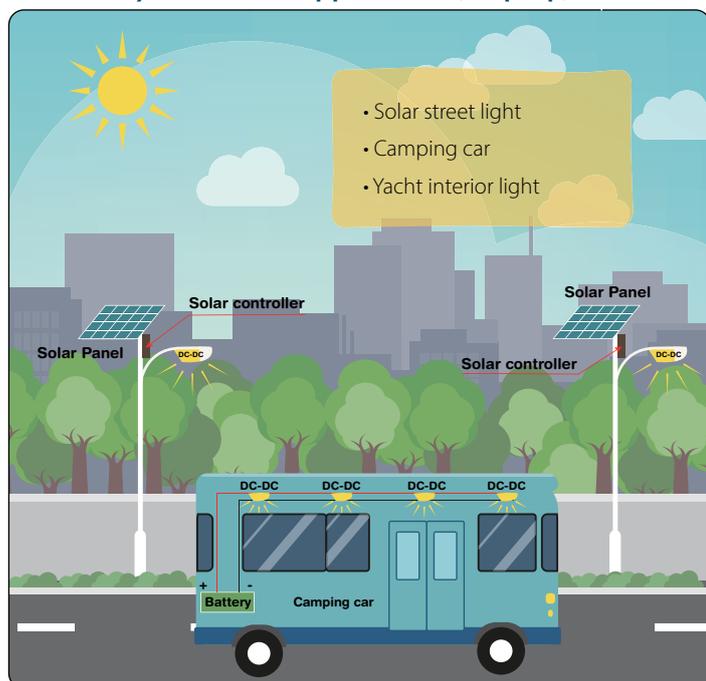
LDH-65 Series



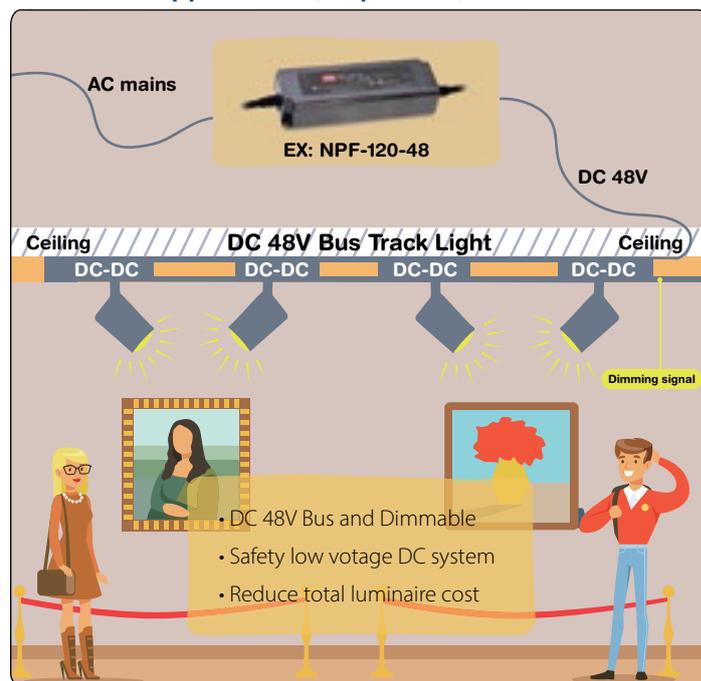
Model No.	Input (VDC)	Output		Io Tol.	Effi.	Dimming
		Voltage (VDC)	Current (mA)			
LDH-65-700 ○	9.5~32	12~80	700	±5%	89%	0~10V PWM
LDH-65-1050 ○	9.5~32	12~60	1050	±5%	90%	
LDH-65-1400 ○	9.5~32	12~46	1400	±5%	90%	
LDH-65-1750 ○	9.5~32	12~37	1750	±5%	90%	

○=Blank, W; Blank: pin style, PWM+analog dimming; W: Wire style, PWM+analog dimming

Battery DC Source application (Step-Up)



DC Bus application (Step-Down)



LDD-L series DC/DC LED Driver

Features

- Constant current step-down mode
- Wide input and output voltage range
- High efficiency up to 95%
- Comply with EN55015/FCC part 15 for radiation emission without Additional input filter and capacitors.
- Compact size
- Protections: Short circuit / Over temperature (LDD-300~700)
- Fully enclosed plastic case (UL 94V-0)
- Economic, high reliability
- Class III safety voltage application
- 3 years warranty



Output current accuracy (Typ.)		±5% at 24VDC input (Typical)	
PWM dimming & ON/OFF control	Remote ON/OFF	Leave open if not used ■ Power ON with dimming: DIM ~ -Vin >3.5~8VDC or open circuit ■ Power OFF: DIM ~ -Vin <0.5VDC or short	■ Power ON with dimming: DIM ~ -Vin >2.6~5.5VDC or open circuit ■ Power OFF: DIM ~ -Vin <0.4VDC or short
	PWM frequency	100~1000Hz	100~500Hz
Analog dimming & ON/OFF control	Remote ON/OFF	None	Leave open if not used ■ Power ON with dimming: DIM ~ -Vin >0.5~2.5VDC or open circuit ■ Power OFF: DIM ~ -Vin <0.4VDC or short
	Short circuit protection	Regulated at rated output current; can be continued, auto-recovery	
Over temp. protection	Shut down, auto-recovery		None
Working temperature	-40~+85°C		-40~+71°C
Safety standards	EAC TP TC 004 approved		
EMC standards	EN55015, EN61547, EN61000-4-2,3,4,6,8, FCC part 15 class B, EAC TP TC 020		
Operating case temp. (max.)	100°C		
Dimension (LxWxH)(mm)	L/LW: 22.6x 9.9x 8.9 LS: 25.4x 10.5x 9.3		L/LW: 31.8x 20.3x 12.2 LS: 31.8x 20.3x 10.9

LDD-L Series



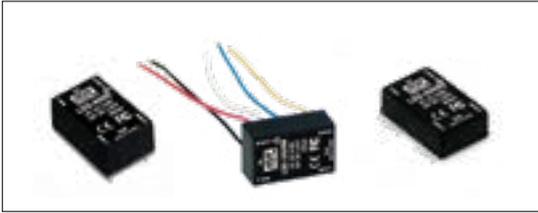
Model No.	Input (VDC)	Output		Io Tol.	Effi.	Dimming
		Voltage (VDC)	Current (mA)			
LDD-300L □	9~36 (9~32 for S style)	2~32 (2~28 for S style)	300	±5%	95%	PWM
LDD-350L □			350			
LDD-500L □			500			
LDD-600L □			600			
LDD-700L □			700			
LDD-1000L □	6~36	2~30	1000			PWM+Analog
LDD-1200L □			1200			
LDD-1500L □			1500			

□ = Blank, W, S ; Blank: pin style, W: Wire style, S: SMD style

LDD-H&LDB-L series DC/DC LED Driver

Features

- Constant current step-down mode (LDD-H) ;
Constant current buck-boost mode (LDB-L)
- Wide input and output voltage range
- High efficiency up to 97%
- Comply with EN55015 and FCC part 15 without additional input filter and capacitors
- PWM dimming and remote ON/OFF control
- Protections: Short circuit / Over temperature
- Fully enclosed plastic case (UL 94V-0)
- Class III safety voltage application
- 3 years warranty

		LDD-300~1000H/HW/HS LDD-1200/1500H/HW	LDB-300~600L/LW
			
Output current accuracy		±3% at 24VDC input; ±4% at 48VDC input for LDD-H/HW; ±5% at 48VDC input for LDD-HS	±5% at 24VDC input (Typical)
PWM dimming & ON/OFF control	Remote ON/OFF	Leave open if not used ▪ Power ON with dimming: DIM ~ -Vin >2.5~6VDC or open circuit ▪ Power OFF: DIM ~ -Vin <0.8VDC or short	▪ Power ON with dimming: DIM ~ -Vin >2~10VDC or open circuit ▪ Power OFF: DIM ~ -Vin <0.5VDC or short
	PWM frequency	100~1KHz	1 KHz
Short circuit		Regulated at rated output current, can be continued, auto-recovery	
Over temperature protection		Shut down, recovers automatically after temperature goes down	
Working temperature		-40~+85°C (refer to output derating curve)	-40~+71°C (refer to output derating curve)
EMC standards		EN55015, EN61547, EN61000-4-2,3,4,6,8, FCC part 15 class B	
Operating case temp. (max.)		100°C	110°C
Dimension (LxWxH)(mm)		LDD-H/HW: 31.8x 20.3x 12.2 LDD-HS: 31.8x 20.3x 11.4	31.8x 20.3x 12.2

LDD-H Series



Model No.	Input (VDC)	Output		Io Tol.	Effi.
		Voltage (VDC)	Current (mA)		
LDD-300H□	9~56	2~52	300	±4%	97%
LDD-350H□	9~56	2~52	350	±4%	97%
LDD-500H□	9~56	2~52	500	±4%	97%
LDD-600H□	9~56	2~52	600	±4%	97%
LDD-700H□	9~56	2~52	700	±4%	97%
LDD-1000H□	9~56	2~52	1000	±4%	97%
LDD-1200H△	9~52	2~46	1200	±5%	95%
LDD-1500H△	9~52	2~46	1500	±5%	96%

□ = Blank, W, S ; Blank: pin style, W: wire style, S: SMD style
△ = Blank, W ; Blank: pin style, W: wire style

LDB-L Series



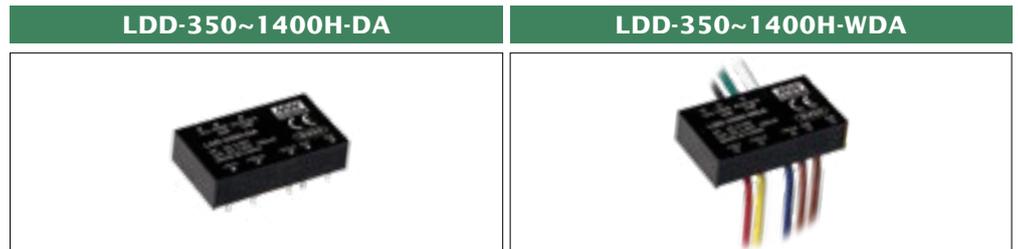
Model No.	Input (VDC)	Output		Io Tol.	Effi.
		Voltage (VDC)	Current (mA)		
LDB-300L△	9~36	2~40	300	±5%	90%
LDB-350L△	9~36	2~40	350	±5%	90%
LDB-500L△	9~30	2~32	500	±5%	91%
LDB-600L△	9~28	2~30	600	±5%	91%

△ = Blank, W ; Blank: pin style, W: wire style

LDD-DA series 30~60W

Features

- Constant current step-down mode
- Wide input and output voltage range
- High efficiency up to 95%
- Comply with EN55015/FCC part 15 for radiation emission without Additional input filter and capacitors.
- Class III safety voltage application
- DALI dimming function
- Protections: Short circuit / Input under voltage lockout
- Fully enclosed plastic case
- 3 years warranty



Output current accuracy (Typ.)		±5% at 48VDC input (350~1050mA), 24VDC input (1400mA) (Typical)
PWM dimming & ON/OFF control	Remote ON/OFF	Leave open if not used • Power ON with dimming : PWM DIM~Vin > 1.2 ~5VDC or open circuit • Power OFF: PWM DIM~Vin < 0.1 VDC or short • Max operation voltage 5.5 VDC
	PWM frequency	200Hz only
Analog dimming & ON/OFF control	Remote ON/OFF	Leave open if not used • Power ON with dimming : Analog DIM~Vin > 0.1~2.5VDC or open circuit • Power OFF: Analog DIM~Vin < 0.1VDC or short • Max operation voltage 5.5 VDC
	Short circuit protection	
Input under voltage lockout	Power up (Typ.)	4.2VDC
	Power down (Typ.)	3.8VDC
Working temperature		-40~+85°C (refer to output derating curve)
Safety standards		EAC TP TC 004 approved
EMC standards		EN55015, EN61547, EN61000-4-2,3,4,6,8, EAC TP TC 020
Operating case temp. (max.)		100°C
Dimension (LxWxH)(mm)		40.6x 23.5x 10.1

LDD-DA Series



Model No.	Input (VDC)	Output		Io Tol.	Effi.	Dimming
		Voltage (VDC)	Current (mA)			
LDD-350H-□DA	6~50	3~45	350	±5%	95%	PWM+Analog
LDD-700H-□DA	6~50	3~45	700			
LDD-1050H-□DA	6~50	3~45	1050			
LDD-1400H-□DA	6~40	3~36	1400			

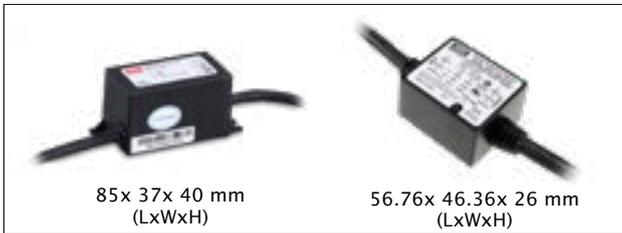
□ = Blank, W; Blank: pin style, W: Wire style

SPD series Surge Protection Device

SPD-10-320S

SPD-10S-277S

10kA Surge Protection Device



85x 37x 40 mm
(LxWxH)

56.76x 46.36x 26 mm
(LxWxH)

- UL1449, Type 4, EN/IEC61643-11(SPD-10S)
- Line to Ground & Line to Line protected
- Series connection type
- LED status indicators
- IP67 (SPD-10-320S); IP66 (SPD-10S)
- Suitable for surge protection of LED drivers
- Thermally protected

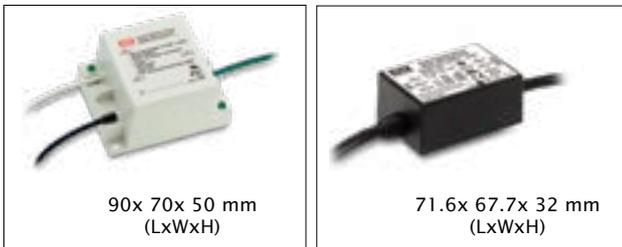


Model No.	SPD-10-320S	SPD-10S-277S
Operating voltage	120~320VAC, 50/60Hz	120~277VAC, 50/60Hz
MCOV (Max. continuous operating voltage)	320VAC	277VAC
Continuous Current (max.)	5A	3.5A
UP (Voltage protection level)	L-N: 1200V L-G/PE: 1500V N-G/PE: 1500V	L-N: 1260V L-G: 1260V N-G: 1300V
IN (Nominal discharge current)	5kA, 8/20 μ s	
Max. surge current (8/20 μ s)	10kA, 8/20 μ s	
Operating temperature	-40~+70°C	-40~+85°C
Safety standard	IEC61643-11: 2011, IEC61000-4-5: 2005	UL1449 Type 4, EN/IEC 61643-11

SPD-20

SPD-20HP

20kA Surge Protection Device



90x 70x 50 mm
(LxWxH)

71.6x 67.7x 32 mm
(LxWxH)

- UL1449, Type 2 (SPD-20), Type 4 (SPD-20HP) component assemblies
- Line to Ground & Line to Line protected
- Parallel (3 wires) connection style (SPD-20)
- Series connection style (SPD-20HP)
- LED status indicators
- IP67 (SPD-20); IP66 (SPD-20HP)
- Suitable for surge protection of LED drivers
- Thermally protected (SPD-20HP)



Model No.	SPD-20-240P	SPD-20-277P	SPD-20HP-277S	SPD-20HP-480S
Operating voltage	240VAC, 50/60Hz	277VAC, 50/60Hz	120~277VAC, 50/60Hz	347~480VAC, 50/60Hz
MCOV (Max. continuous operating voltage)	300VAC	320VAC		510VAC
MLV (Measured limiting voltage)	---		L-N: 810V, L-G: 1560V, N-G: 1570V	L-N: 1400V, L-G: 1560V, N-G: 1570V
VPR (Voltage protection rating)	≤1500V (L-FG, N-FG, L-N)		---	
UP (Voltage protection level)	---		L-N: 1000V, L-G/PE: 3800V, N-G/PE: 2900V	---
IN (Nominal discharge current)	5kA		10kA	
Max. surge current (8/20 μ s)	20kA			
SCCR (Short circuit current rating)	5kA		---	
Response time	<25ns		---	
Operating temperature	-40~+70°C		-40~+75°C	
Safety standard	UL1449 3 rd Edition, TUV EN61643-11 approved	UL1449 3 rd Edition approved	UL1449 4 th Edition, EN61643-11 approved	UL1449 4 th Edition approved
Connection [L (Black)/N (White)/FG (Green)]	FEP 10AWG (15cm)		---	

ICL-16 & PIR-045

ICL-16

AC inrush current limiter



- 23A inrush limiting current, 16A continuous
- 180~264VAC AC input
- Integrated bypass relay, no simple NTC
- Internal thermal protection
- Installed on DIN Rail TS-35/7.5 or 15 (ICL-16R)
- -30~+70°C wide working temperature

Model No.	ICL-16R	ICL-16L
AC Input voltage	180 ~ 264VAC	
Inrush current limiting	23A	
Internal protection	Thermal fuse protects overload and fire	
AC continuous rated current	16A continuous	
Working temperature	-30~+70°C	
Safety standards	IEC62368-1(LVD)	
EMC emission	EN55032, EN61000-3-2,3, EN55024, EN55035, EN61000-6-2, EN61000-4-2,3,4,5,6,8,11	
Dimension(LxWxH)(mm)	35x 90x 54.5	175x 42x 24

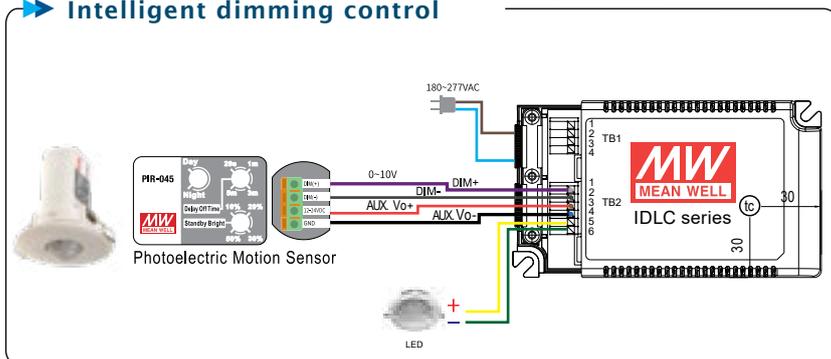
PIR-045

Photoelectric Motion Sensor

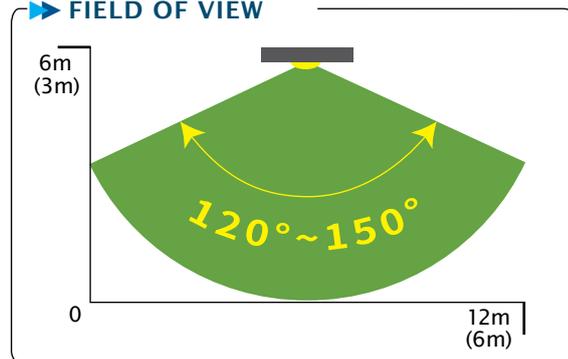


- Operating voltage: 12~24VDC
- Output dim voltage: High=10V ; Low=1V/2V/3V/5V selected by standby bright
- Sensing distance: ≤ 6 meters
- Sensing angle: $<120^{\circ}\sim 150^{\circ}$
- Standby bright: 10%, 20%, 30%, 50%;
- Delay off time: 20s, 1 min, 3min, 5min
- Dimming mode: gradually ON and OFF
- Operating temperature: -10~+40°C
- Energy saving, high sensitivity and compatibility, easy to install
- Dimension(DxH): 60x 71.3mm
- 2 years warranty

Intelligent dimming control



FIELD OF VIEW

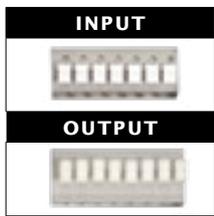


DAP-04

DALI to PWM Converter

Features

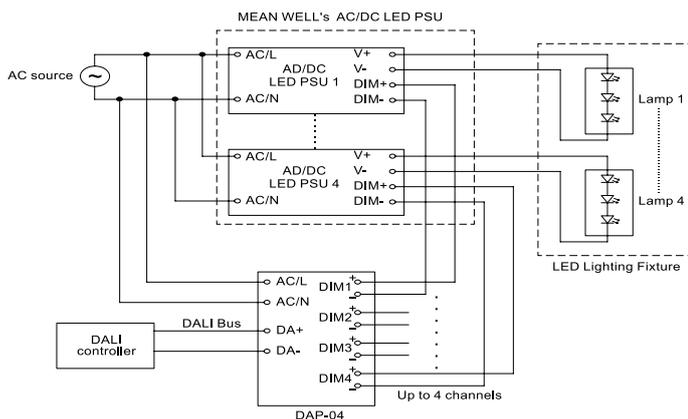
- Convert DALI signal to PWM signal
- Comply with DALI standards (IEC62386-101,102,207)
- Universal AC input (90 to 305VAC)
- 4 DALI addressable output channels
- Built-in push dim function
- Linear or logarithm dimming curve selectable (comply with IEC62386-207)
- Built-in relay for ON/OFF control of LED PSU
- Fully isolated plastic case
- Class II, no FG
- Power consumption < 0.5W
- Suitable to use along with MEAN WELL's AC/DC LED PSU with 3-in-1 dimming function
- Two models for choice:
 - Blank-Type:** 4 channels with 4 DALI addresses
 - S01-Type:** 4 channels with 4 or 1 DALI address selectable
- 3 years warranty



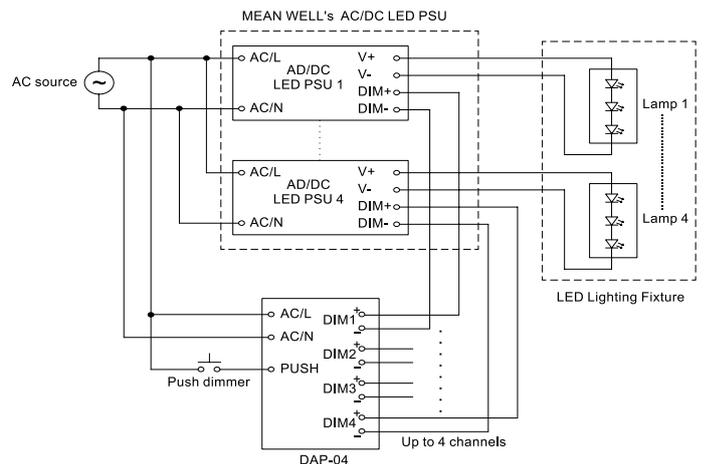
Model No.	DAP-04	DAP-04-S01
AC input voltage range	90~305VAC ; 127~431VDC	
Power consumption(typ.)	0.5W	
Dimming range	1~100%	
Output signal	PWM, 1KHz	
Output channel	4 channels with 4 DALI addresses	4 channels with 4 or 1 DALI address selectable
Output PWM logic	Active high or active low selectable	Active high
Working temperature	-30~+60°C (refer to output derating curve)	
Safety standards	EN61347-1, EN61347-2-11, EN61058-1 clause 8/17/20/25, EAC TP TC 004 approved	
DALI standards	Comply with IEC62386-101, 102, 207	
EMC standards	EN55015, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61547, EAC TP TC 020	
Dimension(LxWxH)(mm)	165x 46x 23	

Connection of Dimming Operation

DALI Dimming Solution



Push Dimming Solution

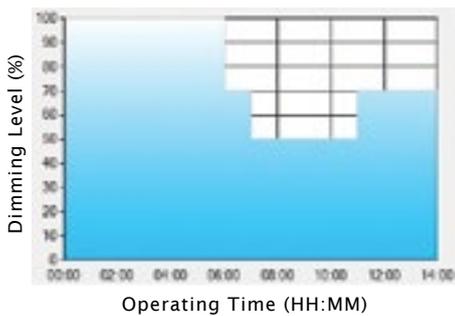


Smart Timer Dimming

Smart Timer Dimming Function

MEAN WELL Smart timer dimming primarily provides the adaptive proportion dimming profile for the output constant current level to perform up to 14 consecutive hours. 3 dimming profiles hereunder are defined accounting for the most frequently seen applications. If other options may be needed, please contact MEAN WELL for details.

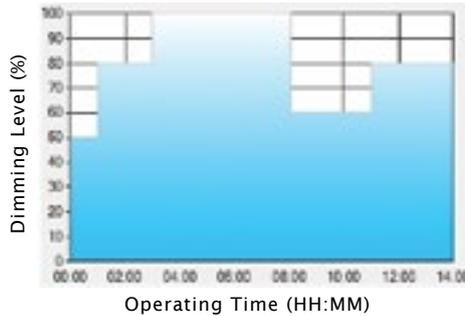
Ex : D01-Type: the profile recommended for residential lighting



Set up for D01-Type in Smart timer dimming software program

	T1	T2	T3	T4
TIME**	06:00	07:00	11:00	---
LEVEL**	100%	70%	50%	70%

Ex : D02-Type: the profile recommended for street lighting



Set up for D02-Type in Smart timer dimming software program

	T1	T2	T3	T4	T5
TIME**	01:00	03:00	08:00	11:00	---
LEVEL**	50%	80%	100%	60%	80%

Ex : D03-Type: the profile recommended for tunnel lighting



Set up for D03-Type in Smart timer dimming software program

	T1	T2	T3
TIME**	01:30	11:00	---
LEVEL**	70%	100%	70%

** : TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

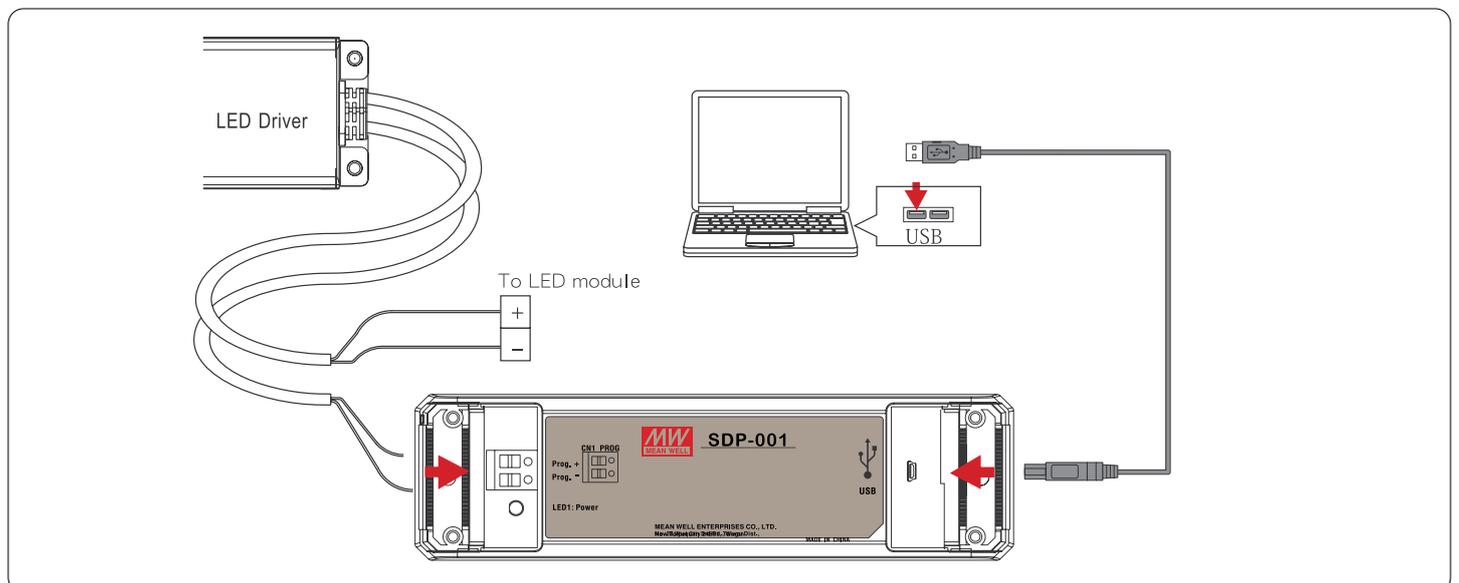
SDP-001

Smart Timer Dimming Programmer



SDP-001 is a programmer, particularly for MEAN WELL's Smart Timer Dimming Tool for LED lighting dimming function, reading or writing various parameters designated by users.

- Simple connection and configuration
- Push terminal and mini-USB port
- No need of battery or AC power



DLP-04/WPD-06

DLP-04



DLP-04L

DLP-04R

DALI Bus Power Supply

- Compact size with 2SU(35mm) width(type R)
- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Isolation class II
- No load power consumption <0.5W(type L)
- Protections: Short circuit / Over voltage
- Cooling by free air convection
- 3 color LED for status indicator (type R)
- Installed on DIN rail TS-35/7.5 or 15(type R)
- 3 years warranty

Model No.	DLP-04L	DLP-04R
Rated DC voltage	16V	
Rated current	240mA (max.)	
Input voltage range	90~264VAC ; 120~370VDC	
Rated power	3.84W	
Working temperature	-20~+60°C (refer to output derating curve)	
Safety standards	EN61347-2-11, EAC TP TC 004 approved	
DALI standards	Compliance to IEC62386-101	
EMC emission	Compliance to En55015, EN61547, EN61000-3-2,-3, EAC TP TC 020	
Dimension(mm)	145x 38x 22(LxWxH)	35x 90x 54.5 (WxHxD)

WPD-06/WPD-06SWT



WPD-06

110x 77x 26.4mm
(LxWxH)

WPD-06SWT

80x 80x 15mm
(LxWxH)

Wireless DC Multi-channel PWM Dimmer Kit

- **EnOcean compliant products**, up to 30 meters wireless distance
- Operating frequency 868MHz
(other frequency for outside EU available on request)
- WPD-06 (PWM dimmer):
 - 6 protected channels, independent dimming control on each channel
 - Up to 128 wireless batteryless switches connected possible
 - Built-in 3 wire push dimming function ports
 - Suitable for constant voltage lighting application, Possible for constant current lighting application
 - Multiple dimmer application via CANBus (optional)
 - Conformal coating for highly humid environment
- WPD-06SWT (switch transmitter):
 - Batteryless switch with cycles >50000 times
 - Maintenance free
- **5 years warranty**

Model No.	WPD-06	WPD-06SWT
Input voltage range	10-32VDC SELV	---
Rated output current	4.5A each channel, 27A for the entire module	---
Rated output power	324W (input: 12V); 648W (input: 24V)	---
Output dimming range	1 to 100%; Switching frequency: 125Hz	---
DC input current	27A	---
Input standby power	1.2W (Typ.)	---
Overload protection	150% rated output power for 300ms max.	---
	Electronic shut down rated at 5A. Restart by switching on again the output of channel	---
Over voltage protection	Transient protection starting at 33V	---
Transmission power	---	10mW max.
Working temperature	-40~+60°C	-25~+65°C
Input / Output terminal	Clamping spring disconnectable terminal for solid or stranded copper conductors 0.25 to 2.5mm ²	---



Building Automation Solutions

90 Product Tree

91 LCM/PWM Series

92 KDA/KAA Series

93 KNX-20E-640

KNX-40E-1280

KSI-01U (USB interface)

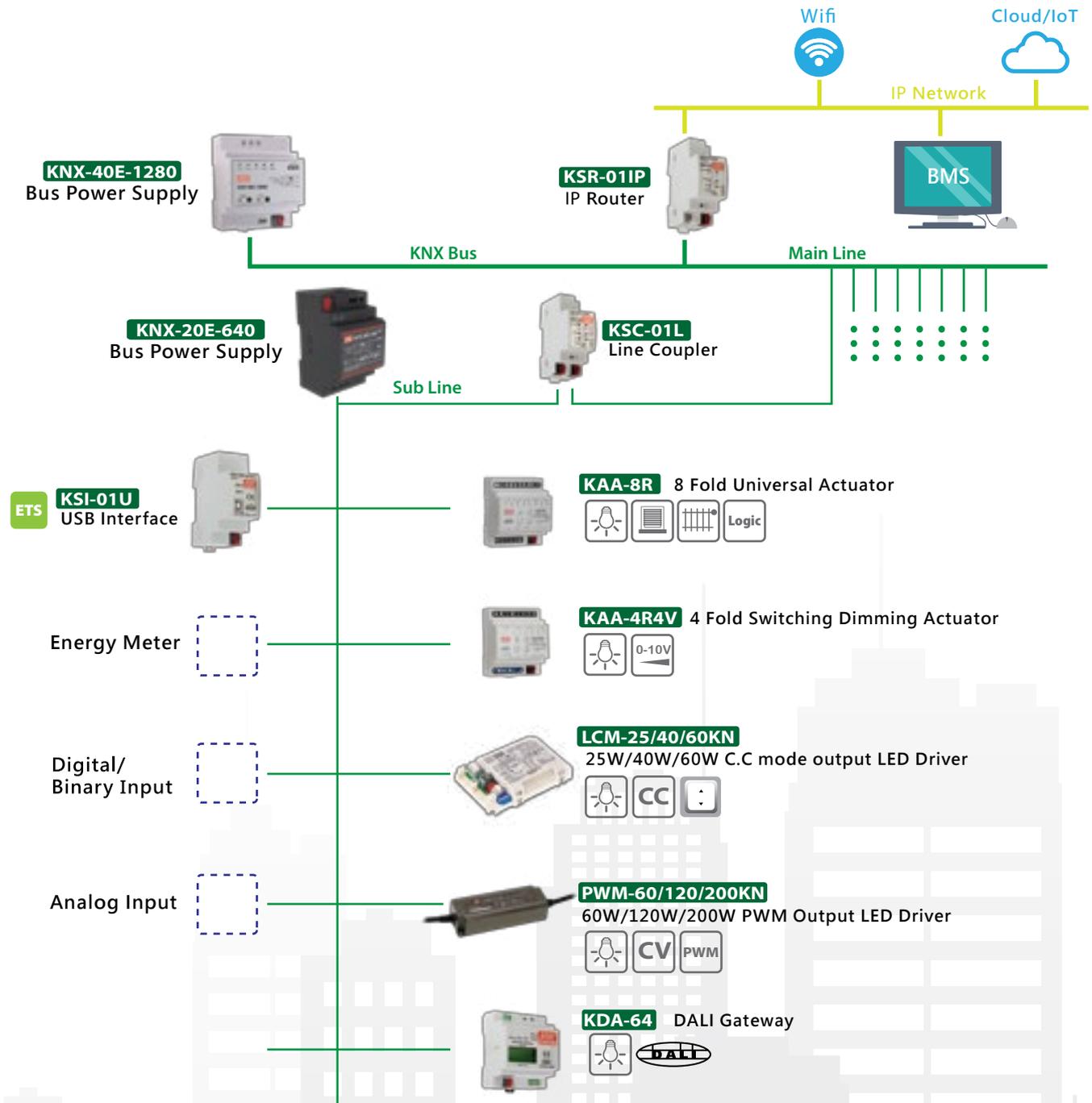
KSR-01IP (IP Router)

KSC-01L (Line Coupler)



The MEAN WELL KNX product range includes components covering the complete applications found in modern buildings, ranging from lighting and shutter control to heating, ventilation and many more. Furthermore, with over 35 years experience of the industrial power supply, MEAN WELL provides a variety of standard power supplies for all kinds of applications such as safety, surveillance, video, audio... etc.

Product Tree



Under Planning



Blind/Shutter Control



Logic Function



Constant Current Driving Mode



DC 0-10V Dimming Control



Lighting Control



Heating Control



Push Button Interface



Constant Voltage Driving Mode



PWM Style Output Mode



Fast and Multi Language Support for any question of KNX product within 24 hr. For the details please check the last page.



LCM/PWM series

LCM-25/40/60KN

25~60W KNX Constant Current LED Driver



- KNX protocol
- Constant current mode output with multiple levels selectable by dip switch
- Support emergency lighting(EL)
- Constant lumen output
- Intergrated KNX push button interface
- Synchronization up to 10 units
- Functions: manual dim, operation hours, log/linear curve selection
- 3 years warranty

Model No.	Output	Io Tol.	Efficiency
LCM-25KN	350mA~1050mA, 6~54V	±5%	86%
LCM-40KN	350mA~1050mA, 2~100V	±5%	90%
LCM-60KN	500mA~1400mA, 2~90V	±5%	91%

PWM-60/120/200KN

60~200W KNX Constant Voltage LED Driver



- KNX protocol
- Constant Voltage PWM style output with user changeable frequency up to 4KHz
- minimal dimming level 0.01%
- Built-in active PFC function
- Functions: operation hours, Constant lumen output, wattage feedback, log/linear/DALI curve selection
- 5 years warranty

Model No.	Output	Vo Tol.	Efficiency
PWM-60-12□	12V, 0~5A	±4%	86%
PWM-60-24□	24V, 0~2.5A	±3%	89%
PWM-120-12□	12V, 0~10A	±4%	88%
PWM-120-24□	24V, 0~5A	±4%	90%
PWM-200-12□	12V, 0~16.6A	±4%	92%
PWM-200-24□	24V, 0~8.3A	±4%	93%
PWM-200-48□	48V, 0~4.16A	±4%	94%

□ =KNX/KNBST KN: KNX control technology ; KNBST: KNX control technology with BST14 connector

KDA/KAA series

KDA-64

KNX to DALI Gateway



- KNX proof gateway
- Easy configuration & installation
- Cost effective solution for smart building
- Connect up to 64 DALI ECGs/Drivers
- Built-in DALI power supply
- LCD 2x12 display
- Lighting control via the button
- Lighting control via the integrated web server
- Up to 16 DALI lighting groups setting
- Up to 16 DALI scenes setting
- 3 years warranty

Model No.	Input signal	Output signal	Additional communication
KDA-64	KNX	DALI	Ethernet

Model No.	KDA-64
AC input voltage range	100~240VAC ; 142~339VDC
Power consumption	7W(Typ.)
Input KNX bus	Standard KNX connector
Output DALI bus voltage	Built-in single DALI voltage 16-20VDC
Output DALI bus rated current	250mA
Ethernet communication port	100MB/s via RJ45 connector
DALI standard	IEC60926 EN62386-103 DALI controller
Working temperature	-5~+45°C
Dimension (LxWxH)(mm)	86x 72x 55

KAA-4R4V/KAA-8R

KNX LED Dimmer/Universal/Actuator



- Dimming and switching LED driver and conventional electronic ballast(for KAA-4R4V)
- Linear or logarithmic dimming curve programmable via ETS software(for KAA-4R4V)
- 8 channel actuator in a compact size(for KAA-8R)
- For AX,C-load, capacitive & inductive of loads (for KAA-8R)
- Manual control via Push button
- Programmable various time and scene function
- 3 years warranty

Model No.	KAA-4R4V-10	KAA-8R	KAA-8R-10
KNX Bus voltage	21~31V		
Current consumption	<11mA	<6mA	
Power consumption	<250mW	<180mW	
Voltage range	0-10V	---	
NO. of controloutput	4	---	
MAX. current per output	50mA	---	
Nr. of relay	4	8	
Independent & potential-free per relay	Yes	---	
Ohmic load/Capacitive load	10A/220μF	16A/220μF	10A/220μF
MAX. inrush current	400A(max. 200μs),80A(max. 20ms)	800A(max. 200μs),165A(max.20ms)	400A(max. 200μs),80A(max. 20ms)
Safetystandards	EN50491-3, EN60669-1, EN60669-2-1, EN60669-2-5		
EMC emission	EN50491-5-1,-2,-3, EN50090-2-2, EN60669-2-1, EN60669-2-5, EN63044-5-1,-2,-3		
Dimension(WxHxD)(mm)	72x 90x 57		

KNX System Component

KNX-20E/40E

640mA & 1280mA Bus Power Supply



- EIB / KNX power supply with Integrated choke
- Compact size with 3SU/4SU width
- Safety extra low voltage(SELV)
- 180~264VAC input
- No load power consumption <0.5W
- Protections: Short circuit / Overload(short-circuit-proof) / Over voltage
- Cooling by free air convection
- Isolation class I
- LED indicator for normal operation, bus reset and bus overload
- Installed on DIN rail TS-35/7.5 or 15
- Over voltage category III
- Wide operating temperature: -30~+70°C
- 3 years warranty



Model No.	V _{out1} (with choke)	V _{out2} (without choke)	I _{out} (I ₁ +I ₂)
KNX-20E-640	Bus, 30VDC	30VDC	640mA
KNX-40E-1280 <input type="checkbox"/> <input type="checkbox"/>	Bus, 30VDC	30VDC	1280mA

: Blank, D ; Blank= Basic function, D=Diagnostic function

KSI-01U

USB Interface



- No additional power supply required
- KNX commissioning addressing and parameters settings
- Long messages support up to 220 byte APDU
- 3 years warranty

KSR-01IP

IP Router



- KNX IP/TP routing
- Built-in web server
- KNX IP secure (optional)
- 3 years warranty

KSC-01L

Line Coupler



- KNX TP Line coupler/Repeater
- Telegram filtering function
- Long messages support up to 240 byte APDU
- 3 years warranty

Comparison Chart

▶ PFC

Family		AC Input Range (VAC)	Potted	C.C./C.P./C.V. (Note 1)	IP	Dimming (Note 2)	Vo / Io Adj	Warranty (years)	Remark	
Series Name	Type									
XLG-25/50/75/100/150/200/240	Blank/A	100-305	✓	C.P.	67	3 in 1	Io	5		
	AB									
HLG-40H / 60H / 80H / 100H / 120H / 150H / 185H / 240H / 320H / 480H / 600H	A	90~305	✓	C.V.+C.C.	65	3 in 1	✓	7		
	B/AB									
	C (240W/320W only)				67	Timer	✓			
	Blank (40~320W)									
	D (option, 40~480W)									
	D2 (option, 480W only)									
HLG-60H-C / 80H-C / 120H-C / 185H-C / 240H-C / 320H-C / 480H-C	A	90~305	✓	C.C.	65	3 in 1	Io	7		
	B/AB									
	D (70~200W)				67	Timer	✓			
	D2 (option, 250~480W)									
	DA (option, 320W only)									
ELG-75 / 100 / 150 / 200 / 240	A	100~305	✓	C.V.+C.C.	65	3 in 1	✓	5		
	B/AB									
	Blank				67	Smart Timer	✓			
	D2									
	DA									
BE (150W only)	3 in 1									
ELG-300		100~305	✓	C.V.+C.C.	67		Io	5		
ELG-50-C / 75-C / 100-C / 150-C / 200-C / 240-C ELGT-150 / ELGC-300	A	100~305	✓	C.C.	65	3 in 1	Io	5		
	B/AB									
	Blank (ELGC-300 except)				67	Smart Timer	✓			
	D2									
	DA									
	BE (ELG-150-C only)									
AB (ELGC-300 only)	C.P. (ELGC-300 only)	3 in 1	Io	5						
XBG-100/160/240	A	90~305	✓	C.P.	67	3 in 1	Io	5		
	AB									
HBG	60		90~295	✓(half)	C.C.				5	1. Circular shape 2. Metal case (Plastic case for HBG-60)
	100	A/AB	90~305	✓	C.C.	65	3 in 1	Io		
		B								
		Blank				67	DALI	✓		
		DA								
	160 / 200 / 240	A/AB	90~305	✓	C.V.+C.C.	65	3 in 1	Io		
		B								
		AB (200W only)				67	3 in 1	Io		
		Blank								
	DA	3 in 1	Io							
	60P		90~295		C.C.			Io		
	100P	A	90~305		C.C.		3 in 1	Io		
		B								
		DA								
160P / 240P	A	90~305		C.V.+C.C.		3 in 1	Io			
	B									
	DA (160W only)							DALI		
HBGC-300	A	90~305	✓	C.P.	67	3 in 1	Io	5	Circular shape	
	AB						Io			
	DA						DALI			

Comparison Chart

Family		AC Input Range (VAC)	Potted	C.C./C.P./C.V. (Note 1)	IP	Dimming (Note 2)	Vo / Io Adj	Warranty (years)	Remark
Series Name	Type								
HVG(C)-65 / 100 / 150 / 240 / 320 / 480 / 650/1000	A	180~528	✓	HVG : C.V.+C.C. HVGC :C.C. HVGC-480/650 /1000:C.P.	65	3 in 1	HVG: ✓ HVGC:Io	5	HVG-650/1000 AB-Type IP:67
	B								
	AB								
	D (option, 65~150W)								
	D2 (option, 240~1000W)								
	DA (480W, 650W)								
	DA2(1000W only)								
FDL-65		180~295	✓	C.C.	65		Io	3	
FDLC-80 / 100		180~295	✓	C.P.	65		Io	3	
FDHC-100		180~295	✓	C.P.	67			3	
SLD-50/80		110~305		C.V.+C.C			Io(56V)	3	
LDC-35 / 55 / 80	B	180~264		C.P.		3 in 1	Io Adj	5	1. CP mode 2. Flirker free
	Blank								
	DA								
HLN-40H / 60H / 80H	A	90~305	✓ (60W/80W half)	C.V.+C.C.	64	3 in 1	✓	3	
	B								
LPF-16 □ / 25 □ / 40 □ / 60 □ / 90 □ / LPFH-60 □	D	90~305	✓	Blank Type : C.V.+C.C. D-Type : C.C.	67 (16W option)	3 in 1		5	
	Blank								
NPF-40 □ / 60 □ / 90 □ / 120 □	D	90~305	✓	Blank Type : C.V.+C.C. D-Type : C.C.	67	3 in 1		5	
	Blank								
PWM-40 / 60 / 90 / 120 / 200	40/60/90/120	90~305	✓	C.V.	67	3 in 1		5	PWM output
	60/90/120/200								
	60/120/200								
IDLV-25 / 45 / 65	A	25W/45W: 90~295 65W: 180~295		C.V.	20	2 in 1		3	1. PWM output 2. Terminal block
	Blank								
IDLC-25 / 45 / 65	A/Blank	25W/45W: 90~295 65W: 180~295		C.C.	20	2 in 1			1. Flicker free 2. Terminal block
	DA (45~65W)								
ODLV-45/65	A	180~295		C.V.	67	2 in 1			PWM output
	Blank								
ODLC-45/65	A/Blank	90~295		C.C.	67	2 in 1		3	Flicker free
	DA								
OWA- 90 / 120		90~264 (OWA-120E: 180~264)	✓	C.C.+C.V.	67*			5	External type
PLN-100		90~295		C.C.+C.V.	64		✓	2	
PLN-30 / 45 / 60		90~295		C.C.	64		✓	2	
PLN-20		90~277		C.C.	64		Io	2	
PLC-100		90~264		C.V.+C.C.			✓	2	Terminal block I/O
PLC-30 / 45 / 60		90~264		C.C.			✓	2	Terminal block I/O
PCD-16 / 25 / 40 / 60		A: 90~135 B: 180~295	✓ (16W/25W/ 60W half)	C.C.	42	AC Phase-Cut		3	

Comparison Chart

Family		AC Input Range (VAC)	Potted	C.C./C.P./C.V. (Note 1)	IP	Dimming (Note 2)	Vo / Io Adj	Warranty (years)	Remark
Series Name	Type								
PLD-16 / 25 / 40 / 60		16W/40W/60W: A: 90~135 B: 180~295	✓ (16W/25W/ 60W half)	C.C.	42			3	
		25W: 90~295							
GSV30 / 60		30W: 100~264 60W: 180~264		C.V.	40			3	External type
PLM-12 / 25		110~295		C.C.	30			2	Terminal block
PLM-12E / 25E		180~295							
LCM-25 / 40 / 60 (EO)		25W: 180~277 40W/60W: 180~295		C.C.	20	EnOcean DALI & BLE KNX/EIB		3	1. Io level selectable in one power unit 2. Terminal block
LCM-25/40/60(DA/BLE)									
LCM-25/40/ 60-KN									
LCM-40U / 60U (EO)									
LCM-40UDA / 60UDA									
IDPV-25 / 45 / 65		A/Blank 25W/45W: 90~295 65W: 180~295		C.V.			2 in 1	3	1. PCB type 2. Terminal block
IDPC-25 / 45 / 65		A/Blank DALI 25W/45W: 90~295 65W: 180~295		C.C.		DALI	2 in 1		1. PCB type 2. Flicker free 3. Terminal block
PLP-30 / 45 / 60		90~264		C.C.			Io	2	PCB type
HLP-40H / 60H / 80H		90~305		C.C.		3 in 1	✓	3	PCB type
ERPF-400		90~264	half	C.V.			Vo	3	

► Non-PFC

Family		AC Input Range (VAC)	Potted	C.C. or C.V. (Note 1)	IP	Max. Eff.	Warranty (years)	Remark
Series Name	Type							
APV-8 / 12 / 16 / 25 / 35		90~264	✓ (16W/35W half)	C.V.	42	85%	2	
APC-8 / 12 / 16 / 25 / 35		90~264	✓ (16W/35W half)	C.C.	42	84%	2	
APV-8E / 12E / 16E		180~264	✓ (16W half)	C.V.	42	83%	2	
APC-8E / 12E / 16E		180~264	✓ (16W half)	C.C.	42	83%	2	
LPL-18 / LPH-18 LPV-20 / 35 / 60 / 100 / 150 LPVL-150		LPL: 90~132 LPH: 180~264 LPV-20~100: 90~264 LPV-150: 180~305 LPVL-150: 90~132	✓	C.V.	67	90%	2	
LPLC-18 / LPHC-18 LPC-20 / 35 / 60 / 100 / 150		LPLC: 90~132 LPHC: 180~264 LPC-20~100: 90~264 LPC-150: 180~305	✓	C.C.	67	90%	2	
OWA-60		90~264	✓	C.V.+C.C.	67*	91%	5	External type
ERP -200/350		180~264	half	C.V.		90%	3	

Note 1 C.V. represents Constant Voltage Mode Output, whereas C.C. represents Constant Current Mode Output; C.P. represents constant power mode output. For C.V.+C.C., C.C., and C.V. operations, please refer to Application Q&A section on MEAN WELL LED website. (The C.C. only LED power supplies are suitable for directly driving LED modules, but not suitable for connecting with additional DC-DC LED drivers.)

Note 2 3 in 1 dimming: 1~10Vdc (or 0~10Vdc), PWM signal, or resistance.

2 in 1 dimming: 1~10Vdc (or 0~10Vdc), PWM signal.

DALI: DALI control technology

BLE: Bluetooth mesh dimming

For Timer Dimming and Smart Timer Dimming function, please contact MEAN WELL for details.

Note 3 * IP67 design for power body

Certification Chart

► Metal Case

● : Certified for whole series ; ▲ : Certified for assigned models

Standard Series	Class 2 power unit	UL8750 (type "HL")	UL62368-1 EN62368-1	UL879	EN61347-1, EN61347-2-13	PSE J61347-1, J61347-2-13	EN55015	EN61000-3-2 Class □	EN55032 Class □	CE	CB	CCC (Note 1)
XLG-25/50	●	●HL			●	●	●	C		●	●	●
XLG-75/100	●	●HL		12V/24V	●	●	●	C		●	●	●
XLG-150/200/240		●HL		12V/24V(150W)	●	●	●	C		●	●	●
ELG-75/100	●	●HL			●		●	C		●	●	●
ELG-150/200/240		●HL			●		●	C		●	●	●
ELG- 300		●HL			●		●	C		●	●	●
ELG-75-C		●HL			●		●	C		●	●	●
ELG-100-C		●HL			●		●	C		●	●	●
ELG-150-C		●HL			●		●	C		●	●	●
ELG-200-C		●HL			●		●	C		●	●	●
ELG-240-C		●HL			●		●	C		●	●	●
ELGC-300		●HL			●		●	C		●	●	●
HLG-40H/60H	●	●HL			●	▲	●	C		●	●	●
HLG-80H	●	▲HL			●	▲	●	C		●	●	●
HLG-100H	●	●HL			●	▲	●	C	B	●	●	●
HLG-120H/150H		●HL			●	▲	●	C	B	●	●	●
HLG-185H		●HL			●	▲	●	C	B	●	●	●
HLG-240H/320H		●HL	●240W		●	▲	●	C	B	●	●	●
HLG-480H		●HL			●	▲	●	C	B	●	●	●
HLG-600H		●HL			●	●	●	C	B	●	●	●
HLG-60H-C		●			●		●	C		●	●	●
HLG-80H-C		●			●		●	C		●	●	●
HLG-120H-C		●			●	▲ A type	●	C		●	●	●
HLG-185H-C		●			●	▲ A type	●	C		●	●	●
HLG-240H-C		●HL			●		●	C		●	●	●
HLG-320H-C		●HL			●		●	C		●	●	●
HLG-480H-C		●HL			●		●	C		●	●	●
HVG-65	●	●					●	C				
HVG-100	●	●HL					●	C				
HVG-150		●HL					●	C				
HVG-240		●HL										
HVG-320		●HL										
HVG-480		●HL										
HVGC-65		●			●		●	C		●	●	
HVGC-100		●			●		●	C		●	●	
HVGC-150		●HL			●		●	C		●	●	
HVGC-240		●HL			●		●	C		●	●	
HVGC-320		●HL			●		●	C		●	●	
HVGC-480		●HL			●		●	C		●	●	
HVGC-650		●HL			●		●	C		●	●	
HVGC-1000		●HL			●		●	C		●	●	●
XBG-100/160/240		●HL			●		●	C		●	●	●

Note1: CCC models are offered as optional models.

Certification Chart

▶ Metal Case

● : Certified for whole series ; ▲ : Certified for assigned models

Standard	Class 2 power unit	UL8750 (type "HL")	EN62368-1/LVD	UL879	EN61347-1, EN61347-2-13	PSE J61347-1, J61347-2-13	EN55015	EN61000-3-2 Class □	EN55032 Class □	CE	CB	CCC (Note 2)
HBG-100/160(DA)		●HL			●		●	C		●	●	●
HBG-200(DA)		●HL			●		●	C		●	●	●
HBG-240(DA)		●			●		●	C		●	●	●
HBGC-300		●HL			●		●	C		●	●	●
FDL-65							●	C		●		●
FDLC-80/100					●		●	C				●
FDHC-100					●		●	C		●	●	●
LDC-35/55/80(DA)		●			●		●	C		●	●	●
ERP-200/350			●350W								●	●
ERPF-400									A	●	●	●

Note 2 : CCC models for HBG-100/160/240 are offered as optional models; CCC models for LDC-35/55/80(DA), except for LDC-55-DA2

Note : CQC models for ERP-200/350

HL : Type HL LED Driver for use in Class I, Division 2 hazardous location luminaires.

▶ Plastic Case & PCB Type

■ : GS Mark ; ● : Certified for whole series ; ▲ : Certified for assigned models

Standard	Class 2 power unit	UL8750 (type "HL")	EN62368-1/LVD	UL879	EN61347-1, EN61347-2-13	PSE J61347-1, J61347-2-13	EN55015	EN61000-3-2 Class □	EN55032 Class □	CE	CB	CCC (Note 3)
APV-8		●					●	A		●		●
APV-12/16	●	●			●		●	A		●	●	●
APV-25/35	●	●						A	B	●		
APC-8		●					●	A		●		●
APC-12/16	●	●					●	A		●		●
APC-25/35	▲	▲						A	B	●		
APV-8E/12E/16E					●		●	A		●	●	
APC-8E/12E/16E					●		●	A		●	●	
GSV30/60					●		●	C		●		
HBG-60 (P)	●	●			●		●	C		●	●	●
HBG-100P/160P/240P		●			●		●	C		●	●	●
HLN-40/60/80H	●	●					●	C		●	●	
HLP-40H/60H/80H	●	●					●	C		●	●	●
SLD-50/80	●	●HL			●		●	C		●	●	●
LCM-25/40/60(DA)(EO)		●			●		●	C		●	●	●
LCM-40U/60U(DA)(EO)		●										
LCM-25/40/60-KN					●		●	C		●	●	
IDLV-25(A)/45(A)/65(A)	●	●			●		●	C		●	●	●
IDLC-25(A)/45(A)/65(A)		●			●		●	C		●	●	●
IDPV-25(A)/45(A)/65(A)	●	●			●		●	C		●	●	●
IDPC-25(A)/45(A)/65(A)		●			●		●	C		●	●	●
ODLV-45(A)/65(A)		●			●		●	C		●	●	●
ODLC-45(A)/65(A)		●			●		●	C		●	●	●
ODLC-45-DA/65-DA		●			●		●	C		●	●	●

Note 3 : CCC models for AP and HLN series are offered as optional models.

Certification Chart

Plastic Case & PCB Type

● : Certified for whole series ; ▲ : Certified for assigned models

Standard	Class 2 power unit	UL8750 (type "HL")	EN62368-1/LVD	UL879	EN61347-1, EN61347-2-13	PSE J61347-1, J61347-2-13	EN55015	EN61000-3-2 Class	EN55032 Class	CE	CB	CCC (Note 4)
LPL-18	●							A	B	●		
LPH-18	●		●					A	B	●	●	
LPV-20	●		●	●				A	B	●	●	
LPV-35	●		●					A	B	●	●	
LPV-60	▲		●	▲				A	B	●	●	
LPV-100		●	●	●				A	B	●		
LPV-150		●	●	●				A	B	●		
LPVL-150		●		●				A	B			
LPHC-18								A	A	●		
LPC-20	●		●	●				A	B	●		
LPC-35	●		●					A	B	●		
LPC-60	●		●					A	B	●	●	
LPC-100			●					A	B	●		
LPC-150			●					A	B	●		
LPF-16(D)/25(D)	●	●			●	●	●	C		●	●	●
LPF-40(D)/60(D)	●	●			●	●	●	C		●	●	●
LPF-90(D)	●	●HL			●	●	●	C		●	●	●
LPFH-60(D)	●	●HL									●	
NPF-40(D)	●	●HL			●		●	C		●	●	●
NPF-60(D)	●	●HL			●		●	C		●	●	●
NPF-90(D)	▲	●			●		●	C	B	●	●	●
NPF-120(D)		●HL			●		●	C		●	●	●
OWA-60E								A	B	●	●	
OWA-60U	●	●										
OWA-90E										●		
OWA-90U	▲	●										
OWA-120E										●	●	
OWA-120U		●										
PCD-16 (A/B)	●	●			▲ B type		▲ B type	C		▲ B type	●	●
PCD-25 (A/B)	●	●			▲ B type		▲ B type	C		▲ B type	●	●
PCD-40					●		●	C		●	●	●
PCD-60					●		●	C		●	●	●
PLC-30	●				●	●	●	C		●	●	
PLC-45/60/100	●				●	●	●	C	B		●	
PLD-16 (A/B)	●	●			▲ B type		▲ B type	C		▲ B type	●	●
PLD-25	●	●			●		●	C		●	●	●
PLD-40					●		●	C		●	●	●
PLD-60					●		●	C		●	●	●
PLM-12(E)	▲Blank	▲Blank			●		●	C		●	●	●
PLM-25(E)	▲	▲Blank			●		●	C		●	●	●
PLN-20	●	●			●		●	C		●	●	
PLN-30	●			●	●		●	C		●	●	
PLN-45	●	●		●	●		●	C		●	●	
PLN-60	●	●		●	●		●	C	B	●	●	
PLN-100	●	●		●	●		●	C	B	●	●	
PLP-30/45/60	●	●			●		●	C		●	●	●
PWM-40	●	●HL			●		●	C		●	●	●
PWM-60	●	●HL			●		●	C		●	●	●
PWM-90	▲	●			●		●	C		●	●	●
PWM-120/200		●HL			●		●	C		●	●	●

Note 4 : Except for PLC, PLM-E and PLP series that the standard models are certified for CCC, CCC models are offered as optional models.
HL: Type HL LED Driver for use in Class I, Division 2 hazardous location luminaires.

Solutions

With more than 30 years experience, MEAN WELL, the leading brand of the power supply and LED driver, officially launches five solution websites, including LED lighting, LED display, Medical power, KNX smart building, and System power supply. Through these five websites, we hope to share our years of experience and knowledge of power supplies with you.

In each solution website, a comprehensive content was offered, covering from basic model recommendations to the thorough solutions offer for each application. If you are looking for those five related solutions, come and visit our website for answers! We hope our website can be another helpful resource for your next design.



Choose the right
PSU & LED Drivers
to Create
A Brand New
Experience
for Customers



LED Lighting Solution

- Outdoor Lighting
- Indoor Lighting
- High Bay Lighting
- Horticulture Lighting
- Specific Lighting



LED Display Solution

- Indoor Full Color
- Outdoor Full Color
- Fine Pitch
- Rental



Medical Power Solution

- Diagnostic Imaging System
- Analysis and Laboratory
- Home Healthcare
- Rehabilitation and Assistive Device



KNX Smart Building Power Solution

- Indoor Lighting Control
- Heating System Control
- Blinder System Control
- Total Power Solution



Configurable Power Solution

- Industrial Application
- Lighting Application
- Charging Application
- ICT Application
- Medical Application



Selection Guide

LED Driver Selection Method

STEP 1 Confirm the forward current and voltage required by the luminaires

Confirm the LED lumen required and the suitable LED (chip) brand. Then, choose the fitting LED drivers based on the forward current and forward Voltage (Vf) of the specification.

STEP 2 Confirm the application and function of the luminaires (driver)

After acquiring the forward current and forward voltage of the LED specifications, choosing the driver models according to the application and design of the luminaire, such as indoor/ outdoor application/ PFC / waterproof protection /dimming function/ input voltage range /safety regulations... etc.

STEP 3 Choose the suitable LED drivers from MEAN WELL website

Confirm all the required functions. Through "Quick Search" of MEAN WELL website, choose the appropriate LED drivers via the options provided.

STEP 4 Confirm the specifications of the LED drivers

When finding the suitable products through " Quick search", please refer to the product specification to confirm the voltage range and current of the driver and the related electrical features: dimming functions / waterproof function / operating temperature/warranty and other requirements. Furthermore, it is recommended that the lowest usage range of the chosen LED driver voltage is at least 2V higher than the actual application Vf voltage to avoid the LED light flashing due to the situation that Vf decreases when operating. In addition, when selecting the driver, add 20% wattage of the actual lamp to reduce the quality problems caused by the long-term operation and the high ambient temperature.

STEP 5 Contact MEAN WELL sales or distributors

After confirming the specifications of the product; however, unable to choose suitable products, please feel free to contact MEAN WELL sales or distributors through website Sales Inquiry to make an inquiry, including if the selection is appropriate/ samples can be purchased...etc. Moreover, if you have purchased a sample, please test the electrical features and temperature of the drivers with the luminaire to ensure that luminaires have the best heat dissipation convection / optical design and correct electrical features.

LDHV-60 Series

High Voltage DC input DC-DC LED driver

- DC/DC step-down converter
- Constant current output: 700mA to 2100mA
- Wide input voltage: 100 ~ 420VDC
- Cooling by free air convection
- Fully encapsulated with IP67 level for pin and wire style
- Built-in 3 in 1 dimming function(dim-to-off)
- Compact size
- Suitable for DC source illumination luminaire
- Protections:
Short circuit / Over temperature
- 3 years warranty

Coming Soon



LDLDS-H Series

Slim and linear DC input DC-DC LED driver

- Constant current led driver
- High efficiency up to 95%
- Wide input and output voltage range
- Input voltage up to 52v
- Analogue dimming control
- Protections:
Short circuit / Over temperature
- 3 years warranty

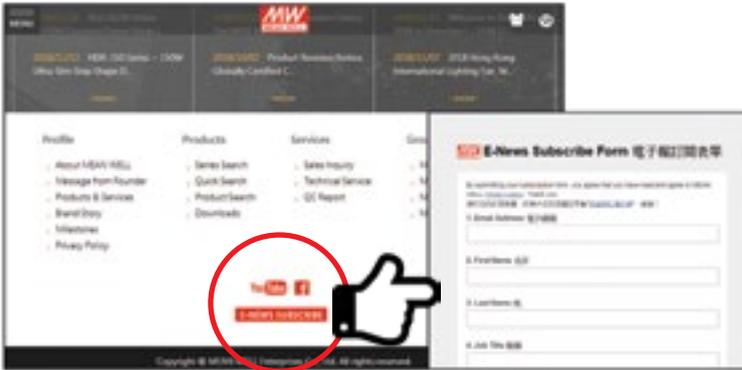
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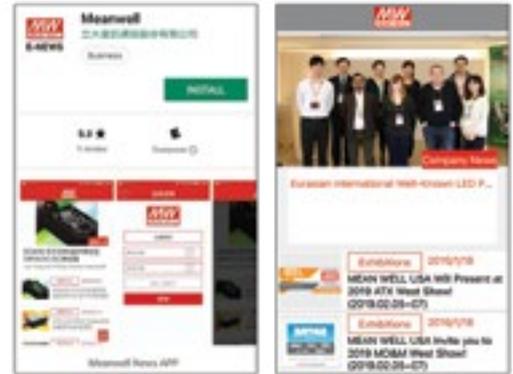
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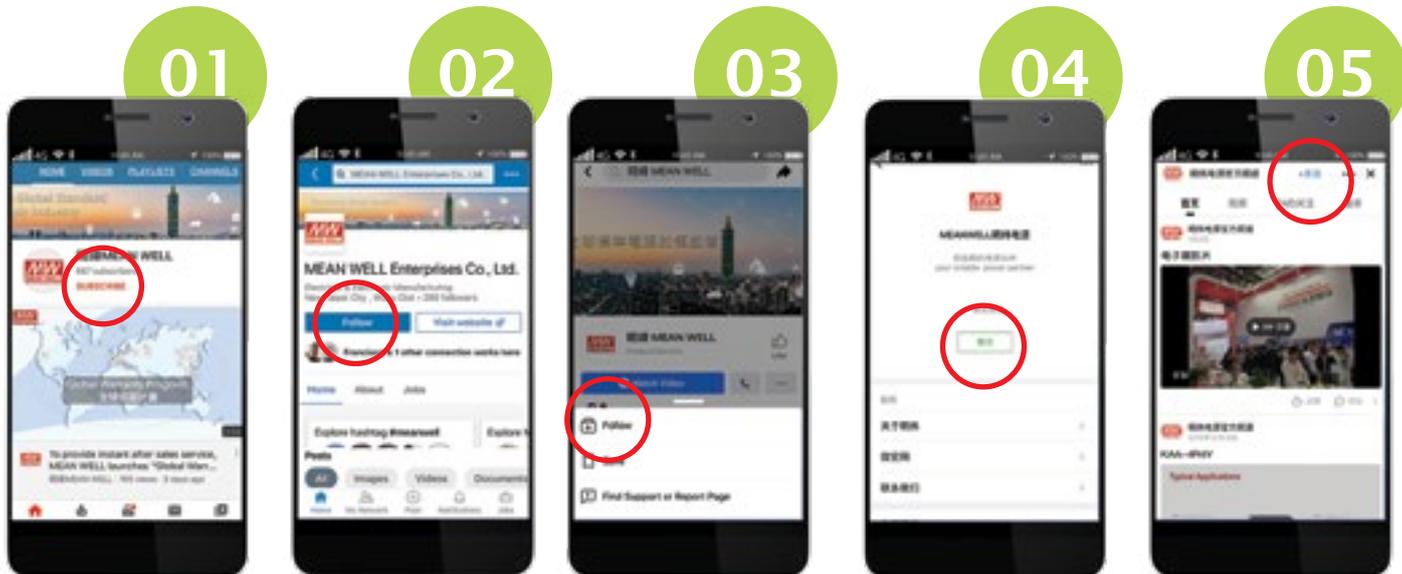
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- Search official account "MEAN WELL" in WeChat APP
- Click the "FOLLOW" button



05 YouKu

- Scan the QR code
- Press the "SUBSCRIBE" button on the top



Powered by MEAN WELL



Concept

MEAN WELL devoted to industrial PSU and LED drivers for years. Now, we ranked the top 5 global PSU manufacturers and the 2nd in LED drivers. Coincidentally, many equipment and lighting manufacturers use our products, which inspires us to come up with the “Powered by MEAN WELL” joint marketing plan.

Purpose

Taking “Powered by MEAN WELL” as a starting point, we invite premium clients who agree with our brand spirit to become our “Reliable Power Partners”. We use “Powered by MEAN WELL” as our main co-marketing strategy for mutual brand promotion and to further achieve win-win situation.



PBM WEBSITE

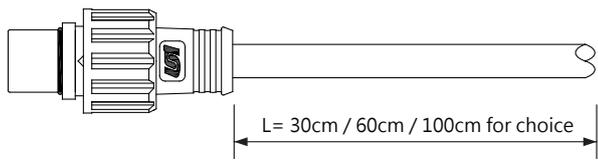
Waterproof Connector

Female Waterproof Output Connector (Power supply side)

Waterproof Connector	Pin Configuration (Female)								
	M12		M15		M20.5		M20.8		
		Order No. : M12-02		Order No. : M12-04		Order No. : M15-02		Order No. : M20.5-02	Order No. : M20.8-02
	2-pin (5A/PIN)	Suitable Current : 5A max.	4-pin (5A/PIN)	Suitable Current : 10A max.	2-pin (12A/PIN)	Suitable Current : 12A max.	2-pin (20A/PIN)	Suitable Current : 20A max.	Suitable Current : 20A max.

- ▶ The output cable can be modified to include different waterproof connectors by MEAN WELL. Minimum order quantity may vary for different models.
- ▶ We would suggest you to order the configurations of "M15 connector with length of 20cm / 30cm / 45cm / 60cm / 80cm / 100cm cables" due to its cost effectiveness and fast delivery. Ordering other connector type or cable lengths will have higher cost and longer lead-time.
- ▶ Suitable for CLG / HLG / HLG-C / HVG(C) / ELG / ELG-C / HBG / CEN / HSG / HLN / LPF / NPF / PWM series.

Male Waterproof Output Connector with Cable (System side)

Figure	Drawing
	

- ▶ MEAN WELL offers male waterproof connectors with cable length of 30cm, 60cm, and 100cm as our standard mating accessories. These mating accessories need to be ordered together with PSU. For other length or cable style, the higher MOQ requirement and long lead-time will be expected. Please consult MEAN WELL for details.

Order No.

M12-02M-30-U1-UN

① ② ③ ④ ⑤ ⑥

Connector Type: Male / Female

①	M12	M15	M20.5	M20.8
	UN & CH	UN & CH	UN only	CH only

No. of PIN

②	2P	4P	M15, M20.5 and M20.8 only have 2-pin choice
	2pin	4pin	

③	M	F
	Male (System Side)	Female (PSU Side)

Cable Length: Male with Cable

④	30	60	100
	30cm	60cm	100cm

Cable Length: Female with Cable

	20	30	45	60	80	100
	20cm	30cm	45cm	60cm	80cm	100cm

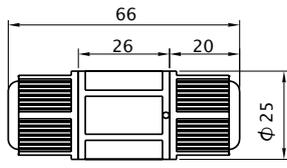
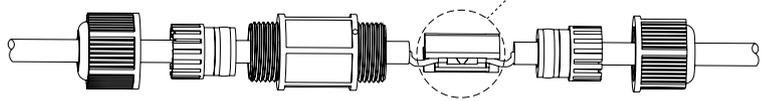
Cable Type

⑤	U1	E1
	SJTW (USA)	H05RN-F (EURO)

Brand Name

⑥	UN	CH
	UNICABLE (Made in Taiwan)	CHOGORI (Made in China)

Waterproof Cable Joiner

	
Order No. : CJ04-1 CJ04-2	
	<p>CJ04-1 suitable for 14AWG~16AWG CJ04-2 suitable for 18AWG~22AWG</p> <p>Up to four wires can be connected through this cable joiner by soldering or clamping by tools.</p>

- ▶ CJ04 cable joiner can be purchased independently for user's own assembly.



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