User's Manual





■ GTIN CODE

SPECIFICATION

MW Search: https://www.meanwell.com/serviceGTIN.aspx

■ Features :

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- · LED indicator for power on
- * 100% full load burn-in test
- * All using 105°C long life electrolytic capacitors
- Withstand 300VAC surge input for 5 second
- High operating temperature up to 70°C
- Withstand 5G vibration test
- * High efficiency, long life and high reliability
- 2 years warranty





— 3 years warranty	C SAUS CB LHI C E CA

OUTPUT NUMBER	PECIFIC	ATION			UL62368-1 BS EN/EN62368-1	IEC62368-1 TPTC004		
DC VOLTAGE	MODEL		RD-65A	RD-65A		RD-65B		
RATED CURRENT 6A		OUTPUT NUMBER	CH1	CH2	CH1	CH2		
CURRENT RANGE		DC VOLTAGE	5V	12V	5V	24V		
NATED POWER Note 68W 150mVp-p 80mVp-p 150mVp-p 80mVp-p 150mVp-p 80mVp-p 150mVp-p 80mVp-p 150mVp-p 80mVp-p 150mVp-p 150mVp-p		RATED CURRENT	6A	3A	4A	2A		
Note		CURRENT RANGE Note.6	0 ~ 8A	0 ~ 4A	0 ~ 8A	0 ~ 3A		
VOLTAGE ADJ. RANGE		RATED POWER Note.6	66W		68W			
VOLTAGE ADJ. RANGE	OUTDUT	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	80mVp-p	150mVp-p		
LINE REGULATION Note.4 ±0.5% ±1.5% ±0.5% ±2.0% LOAD REGULATION Note.5 ±0.5% ±3.0% ±0.5% ±0.5% ±6.0% SETUP, RISE TIME 500ms, 20ms/230VAC 1200ms, 30ms/115VAC at full load HOLD UP TIME (Typ.) 60ms/230VAC 14ms/115VAC at full load VOLTAGE RANGE 88 - 264VAC 125 - 373VDC (Withstand 300VAC surge for 5sec. Without damage) FREQUENCY RANGE 47 - 63Hz 77% AC CURRENT (Typ.) 2A/115VAC 1.2A/230VAC INRUSH CURRENT (Typ.) 2A/115VAC 1.2A/230VAC LEAKAGE CURRENT -27mA / 240VAC VORTION Protection type: Hiccup mode, recovers automatically after fault condition is removed OVER VOLTAGE CH1: 5.75 - 6.75V Protection type: Hiccup mode, recovers automatically after fault condition is removed WORKING TEMP. -25 - +70°C (Refer to "Derating Curve") WORKING HUMIDITY 20 - 99% RH non-condensing STORAGE TEMP., HUMIDITY ±0.038/FC (0 - 50°C) on +5V output TEMP. COEFFICIENT ±0.038/FC (0 - 50°C) on +5V output VIBRATION 10 - 500Hz, 5G 10min/1/cycle, period for 60min, each along X, Y, Z axes SAFETY STANDARDS UL62368-1, TUV BS ENVENG2368-1, EAC TP TC 004 approved MC	JUIPUI	VOLTAGE ADJ. RANGE	CH1: 4.75 ~ 5.5V		CH1: 4.75 ~ 5.5V			
LOAD REGULATION Note.5 ±0.5% ±3.0% ±0.5% ±6.0%		VOLTAGE TOLERANCE Note.3	±2.0%	±6.0%	±2.0%	+4,-8%		
SETUP, RISE TIME 500ms, 20ms/230VAC 1200ms, 30ms/115VAC at full load		LINE REGULATION Note.4	±0.5%	±1.5%	±0.5%	±2.0%		
HOLD UP TIME (Typ.) 60ms/230VAC		LOAD REGULATION Note.5	±0.5%	±3.0%	±0.5%	±6.0%		
VOLTAGE RANGE		SETUP, RISE TIME	500ms, 20ms/230VAC 1200ms, 30ms/115VAC at full load					
FREQUENCY RANGE		HOLD UP TIME (Typ.)	60ms/230VAC 14ms/115VAC at full load					
EFFICIENCY(Typ.) 78% 77% AC CURRENT (Typ.) 2A/115VAC 1.2A/230VAC INRUSH CURRENT (Typ.) COLD START 50A/230VAC LEAKAGE CURRENT <2mA 240VAC Tollow		VOLTAGE RANGE	88 ~ 264VAC 125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage)					
AC CURRENT (Typ.) 2A/115VAC 1.2A/230VAC INRUSH CURRENT (Typ.) COLD START 50A/230VAC LEAKAGE CURRENT < 2mA / 240VAC OVERLOAD 110 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed CH1: 5.75 ~ 6.75V Protection type : Hiccup mode, recovers automatically after fault condition is removed WORKING TEMP25 ~ +70°C (Refer to "Derating Curve") WORKING HUMIDITY 20 ~ 90% RH non-condensing STORAGE TEMP., HUMIDITY -40 ~ +85°C, 10 ~ 95% RH TEMP. COEFFICIENT ±0.03%/°C (0 ~ 50°C) on +5V output VIBRATION 10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes SAFETY STANDARDS UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved WITHSTAND VOLTAGE I/P-0/P:3KVAC I/P-FG:2KVAC 0/P-FG:0.5KVAC ISOLATION RESISTANCE I/P-0/P, I/P-FG, 0/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH EMC EMISSION Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2-3, EAC TP TC 020 MTBF 2940.2K hrs min. Telcordia SR-332 (Bellcore) ; 541.0K hrs min. MIL-HDBK-217F (25°C) DIMENSION 129*98*38mm (L*W*H) PACKING 0.44Kg; 30pcs/14.2Kg/0.72CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.		FREQUENCY RANGE	47 ~ 63Hz					
AC CURRENT (Typ.) 2A/115VAC 1.2A/230VAC INRUSH CURRENT (Typ.) COLD START 50A/230VAC LEAKAGE CURRENT <2mA / 240VAC OVERLOAD 110 ~ 150% rated output power	NPUT	EFFICIENCY(Typ.)	78% 77%					
LEAKAGE CURRENT	01	AC CURRENT (Typ.)	2A/115VAC 1.2A/230VAC					
OVERLOAD 110 ~ 150% rated output power		INRUSH CURRENT (Typ.)	COLD START 50A/230VAC					
ROTECTION OVER VOLTAGE Protection type: Hiccup mode, recovers automatically after fault condition is removed CH1: 5.75 ~ 6.75V Protection type: Hiccup mode, recovers automatically after fault condition is removed WORKING TEMP. -25 ~ +70°C (Refer to "Derating Curve") WORKING HUMIDITY 20 ~ 90% RH non-condensing STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION 10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes SAFETY & WITHSTAND VOLTAGE WITHSTAND VOLTAGE WIP-O/P;3KVAC WIP-FG;2KVAC O/P-FG:0.5KVAC ISOLATION RESISTANCE ISOLATION RESISTANCE IP-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH EMC EMISSION Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61000-3-2,-3, EAC TP TC 020 EMC IMMUNITY Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61000-6-2 (BS EN/EN50082-2), heavy industry level, EAC TP TC 020 MTBF 2940.2K hrs min. Telcordia SR-332 (Bellcore); 541.0K hrs min. MIL-HDBK-217F (25°C) DIMENSION 129*98*38mm (L*W*H) PACKING 0.44Kg; 30pcs/14.2Kg/0.72CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.		LEAKAGE CURRENT	<2mA / 240VAC					
AFETY & WITHSTAND VOLTAGE WITHSTAND VOLTAGE MCC INCOMPLETED MCC MCC INCOMPLETED MCC INCOMPLETED MCC MCC MCC INCOMPLETED MCC MCC MCC INCOMPLETED MCC MCC MCC INCOMPLETED MCC MCC MCC MCC MCC MCC MCC M	PROTECTION		110 ~ 150% rated output power					
OVER VOLTAGE CH1: 5.75 ~ 6.75V		Protection type : Hiccup mode, r		recovers automatically after fault	natically after fault condition is removed			
WORKING TEMP. -25 ~ +70°C (Refer to "Derating Curve") WORKING HUMIDITY 20 ~ 90% RH non-condensing STORAGE TEMP., HUMIDITY -40 ~ +85°C, 10 ~ 95% RH TEMP. COEFFICIENT -40 ~ 50°C) on +5V output VIBRATION 10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes SAFETY STANDARDS WITHSTAND VOLTAGE I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH EMC EMISSION Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020 EMC IMMUNITY MTBF 2940.2K hrs min. Telcordia SR-332 (Bellcore); 541.0K hrs min. MIL-HDBK-217F (25°C) DIMENSION 129*98*38mm (L*W*H) PACKING 0.44Kg; 30pcs/14.2Kg/0.72CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.			CH1: 5.75 ~ 6.75V					
WORKING HUMIDITY 20 ~ 90% RH non-condensing STORAGE TEMP., HUMIDITY 40 ~ +85°C, 10 ~ 95% RH TEMP. COEFFICIENT ±0.03%/°C (0 ~ 50°C) on +5V output VIBRATION 10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes SAFETY STANDARDS UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved WITHSTAND VOLTAGE I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH EMC EMISSION Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020 EMC IMMUNITY Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61000-6-2 (BS EN/EN50082-2), heavy industry level, EAC TP TC 020 MTBF 2940.2K hrs min. Telcordia SR-332 (Bellcore); 541.0K hrs min. MIL-HDBK-217F (25°C) DIMENSION 129*98*38mm (L*W*H) PACKING 0.44Kg; 30pcs/14.2Kg/0.72CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.		OVER VOLIAGE	Protection type: Hiccup mode, recovers automatically after fault condition is removed					
STORAGE TEMP., HUMIDITY -40 ~ +85°C, 10 ~ 95% RH TEMP. COEFFICIENT -5003%/°C (0 ~ 50°C) on +5V output VIBRATION 10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes SAFETY STANDARDS UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved WITHSTAND VOLTAGE I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH EMC EMISSION Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020 EMC IMMUNITY Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61000-6-2 (BS EN/EN50082-2), heavy industry level, EAC TP TC 020 MTBF 2940.2K hrs min. Telcordia SR-332 (Bellcore); 541.0K hrs min. MIL-HDBK-217F (25°C) DIMENSION 129*98*38mm (L*W*H) PACKING 0.44Kg; 30pcs/14.2Kg/0.72CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.	ENVIRONMENT	WORKING TEMP.	-25 ~ +70 °C (Refer to "Derating Curve")					
TEMP. COEFFICIENT ±0.03%/°C (0 ~ 50°C) on +5V output VIBRATION 10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes SAFETY STANDARDS UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved WITHSTAND VOLTAGE I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH EMC EMISSION Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020 EMC IMMUNITY Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61000-6-2 (BS EN/EN50082-2), heavy industry level, EAC TP TC 020 MTBF 2940.2K hrs min. Telcordia SR-332 (Bellcore); 541.0K hrs min. MIL-HDBK-217F (25°C) DIMENSION 129*98*38mm (L*W*H) PACKING 0.44Kg; 30pcs/14.2Kg/0.72CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.		WORKING HUMIDITY	20 ~ 90% RH non-condensing					
VIBRATION 10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes SAFETY STANDARDS UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved WITHSTAND VOLTAGE I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC MC ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH EMC EMISSION Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020 EMC IMMUNITY Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61000-6-2 (BS EN/EN50082-2), heavy industry level, EAC TP TC 020 MTBF 2940.2K hrs min. Telcordia SR-332 (Bellcore); 541.0K hrs min. MIL-HDBK-217F (25°C) DIMENSION 129*98*38mm (L*W*H) PACKING 0.44Kg; 30pcs/14.2Kg/0.72CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.		STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH					
### SAFETY STANDARDS UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved		TEMP. COEFFICIENT	, , ,					
### WITHSTAND VOLTAGE I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC		VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes					
ISOLATION RESISTANCE		SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved					
EMC EMISSION Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020 EMC IMMUNITY Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61000-6-2 (BS EN/EN50082-2), heavy industry level, EAC TP TC 020 MTBF 2940.2K hrs min. Telcordia SR-332 (Bellcore); 541.0K hrs min. MIL-HDBK-217F (25°C) DIMENSION 129*98*38mm (L*W*H) PACKING 0.44Kg; 30pcs/14.2Kg/0.72CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.	SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC					
EMC IMMUNITY Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61000-6-2 (BS EN/EN50082-2), heavy industry level, EAC TP TC 020 MTBF 2940.2K hrs min. Telcordia SR-332 (Bellcore); 541.0K hrs min. MIL-HDBK-217F (25°C) DIMENSION 129*98*38mm (L*W*H) PACKING 0.44Kg; 30pcs/14.2Kg/0.72CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.	EMC (Note 7)	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH					
THERS MTBF 2940.2K hrs min. Telcordia SR-332 (Bellcore); 541.0K hrs min. MIL-HDBK-217F (25°C)		EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020					
THERS DIMENSION 129*98*38mm (L*W*H) PACKING 0.44Kg; 30pcs/14.2Kg/0.72CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.		EMC IMMUNITY	Compliance to BS EN/EN61000-4	-2,3,4,5,6,8,11, BS EN/EN61000-6-	2 (BS EN/EN50082-2), heavy indus	try level, EAC TP TC 020		
PACKING 0.44Kg; 30pcs/14.2Kg/0.72CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.	OTHERS	MTBF	2940.2K hrs min. Telcordia SR-332 (Bellcore) ; 541.0K hrs min. MIL-HDBK-217F (25°C)					
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.		DIMENSION						
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.		PACKING	0.44Kg; 30pcs/14.2Kg/0.72CUFT					
	NOTE	All parameters NOT specia	lly mentioned are measured at 2	230VAC input, rated load and 25	o°C of ambient temperature.			

NOTE

- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- 3. Tolerance: includes set up tolerance, line regulation and load regulation, when multi-channel output, it is recommended that CH1 load > 10%.
- 4. Line regulation is measured from low line to high line at rated load.
- 5. Load regulation is measured from 20% to 100% rated load, and other output at 60% rated load.
- 6. Each output can work within current range. But total output power can't exceed rated output power.
- 7. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)

 8. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
- ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



