

Head office: SUNTREE(China)Electric Co., Ltd.

└ Add: Xinguang Industrial Zone, Liushi, Yueqing Zhejiang China
Tel: +86 577 6289 0205
Web: www.chinasuntree.com
Main products: Solar Accessories, such as Combiner box, DC breaker, DC isolator switch, DC spd,etc,

└ **Shanghai SUNTREE Electric Co., Ltd.** (Production base 1)
Add: No. 65 Haifeng Road, Baoshan District, Shanghai, China
Tel: +86 21 5161 9313
Main items: ATS, Load isolator switch, circuit breaker, etc

└ **Zhejiang Nudy Electric Equipment Co.,Ltd.** (production base 2)
Add: Fangdouyan Industrial Zone, Liushi, Yueqing Zhejiang China
Tel: +86 577 6178 8115
Main products: Power distribution cabinet, etc

└ **Shenzhen Litto New Energy Co.,Ltd.** (production base 3)
Add: Bldg. B, Bafangyuan Science Park, Sanmin Rd. No.3 Rd., Shuitian, Shiyuan, Baoan, Shenzhen.
Tel: 86-755-8170 7800
Main products: on grid inverter, hybrid inverter, etc,

└ **International Sales Companies: Yueqing Xinchang Imp&Exp Co.,Ltd.**
Add: Wanjia Industrial Zone, Malujiao, North Baixiang, Wenzhou, Zhejiang, 325603, China
Tel: +86 577 6289 0205
Web: www.chinasuntree.com
E-mail: tony@chinasuntree.com
sell all products which are produced by suntree group in international market

Suntree
New
Energy





Solar Energy Combiner Box





Suntree Electric Co.,Ltd, an outstanding company in China intelligent electrical industry, a legendary growing company. Suntree, have leading R&D and manufacture capacity. With power grid, new energy, intelligent electric, and middle & high voltage four sales business units. With production plants in Shanghai, Zhejiang, Shenzhen.

Suntree New eneery business unit concentrate on new energy (Solar power generation , wind power, new energy application etc.), distribution system research and development, manufacture, sales and service. Suntree has great independent innovation ability, with many core technology, gain many patents, with ISO9001:2008, 14000, OHSAS18000 etc.

Suntree brand DC products used in Photovoltaic systems with leading technology in this area, passed CE,CB, IEC, Nemko, SAA, TUV, CCC, Gold-sun etc. Litto breand PV inverter authorized with TUV, CE, CQC, ETLQC, AS4777, VDE-AR-4105, VDE0126-1-1, G59/2, G83/2, MEA, PEA, EN50438, EN60116, EN61727 etc. certificates.

Suntree new energy products including: Solar Photovoltaic distribution system (DC MCCB, DC MCB, Intelligent DC ACB, DC SPD, DC Fuse, Intelligent PV Combiner box. And Litto Brand on-grid and off-grid inverter, high frequency isolated inverter and energy storage inverter etc.

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Wind power distribution system: Intelligent wind power frame circuit breaker (plateau type, salt-fog resistance type, low temperature resistance type), Moulded case circuit breaker.

New energy application: Litto brand Charging pile module.

First class products, it from advanced design concept, precise production equipment, strict testing, perfect quality assurance system, quick feedback and excellent after sales service

To provide customer with our first class products and service is our persistent goal.

Suntree company spirit "Innovation, Communication, Service, Dream", insist on "Human, technology, nature" harmonious development, according to "Win-win, win future" cooperation concept. Sincerely hope to cooperate with you to win future.

TECHNOLOGY, FOR BETTER LIFE.

SUNTREE ELECTRIC CONCENTRATES ON

INTELLIGENT TECHNOLOGY

FOCUS ON GREEN TECHNOLOGY

TO WORK OUT HARMONIOUS

LIFE WITH NATURE



报告编号: 1300140203

2010110161Z

太阳能光伏产品金太阳认证测试报告
Golden Sun Certification Test Report for PV Products

产品名称: 光伏汇流箱
Product: PV combiner box

申请单位: 浙江新能电气有限公司
Applicant: Zhejiang Xincheng Electric Co., Ltd.

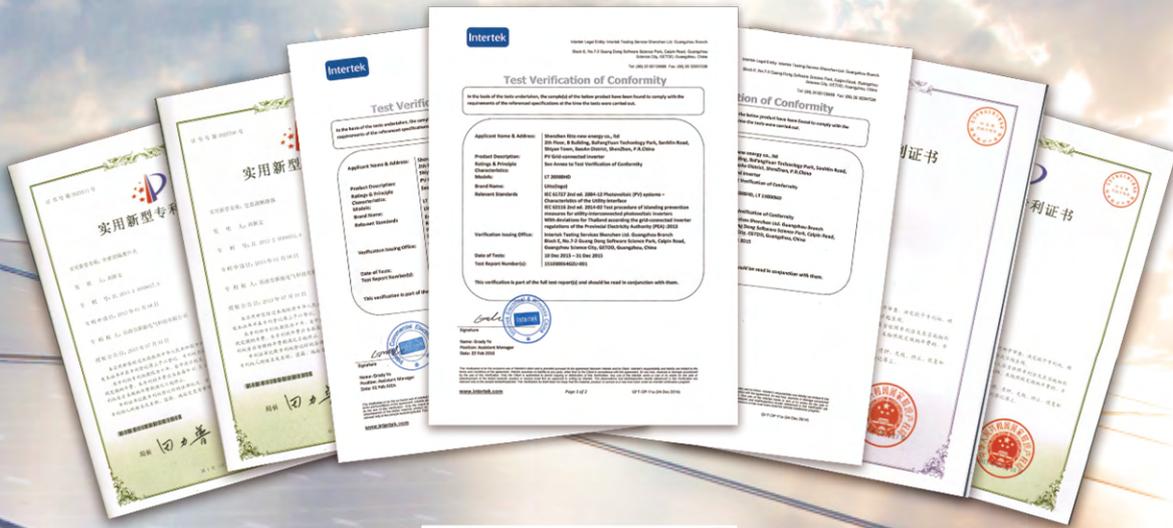
生产单位: 浙江新能电气有限公司
Manufacturer: Zhejiang Xincheng Electric Co., Ltd.

测试单位: 浙江省质量监督科学研究院
Zhejiang Fang Yuan Electric Equipment Test Co., Ltd.

Test Lab: Zhejiang Institute Of Quality Inspection Science
Zhejiang Fang Yuan Electric Equipment Test Co., Ltd.

二零一三年零六月二十一日

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CB

CE

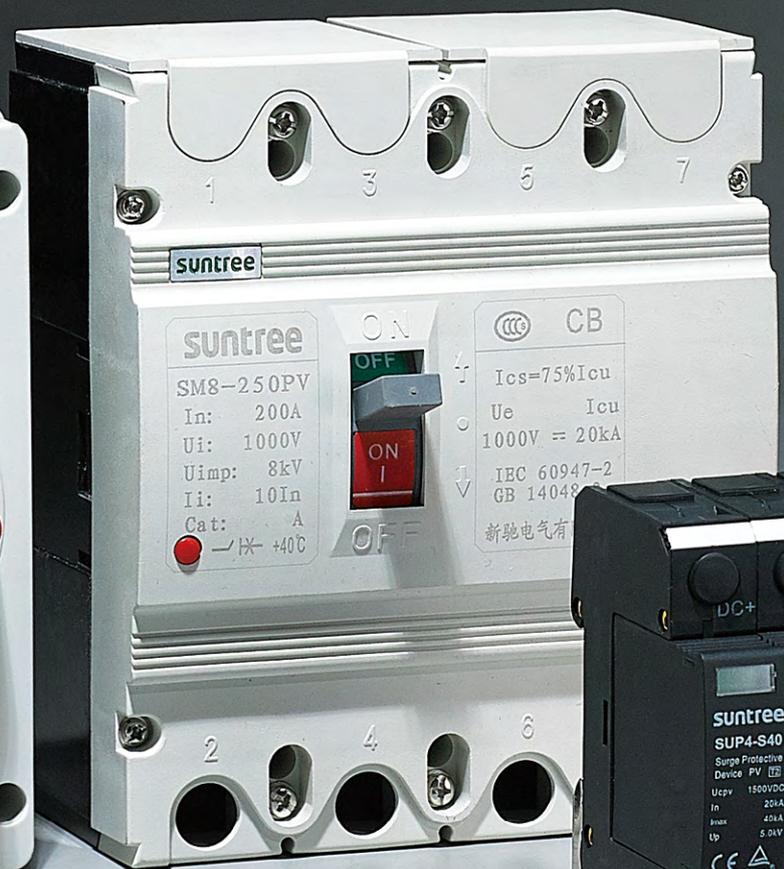


ROHS



IEC

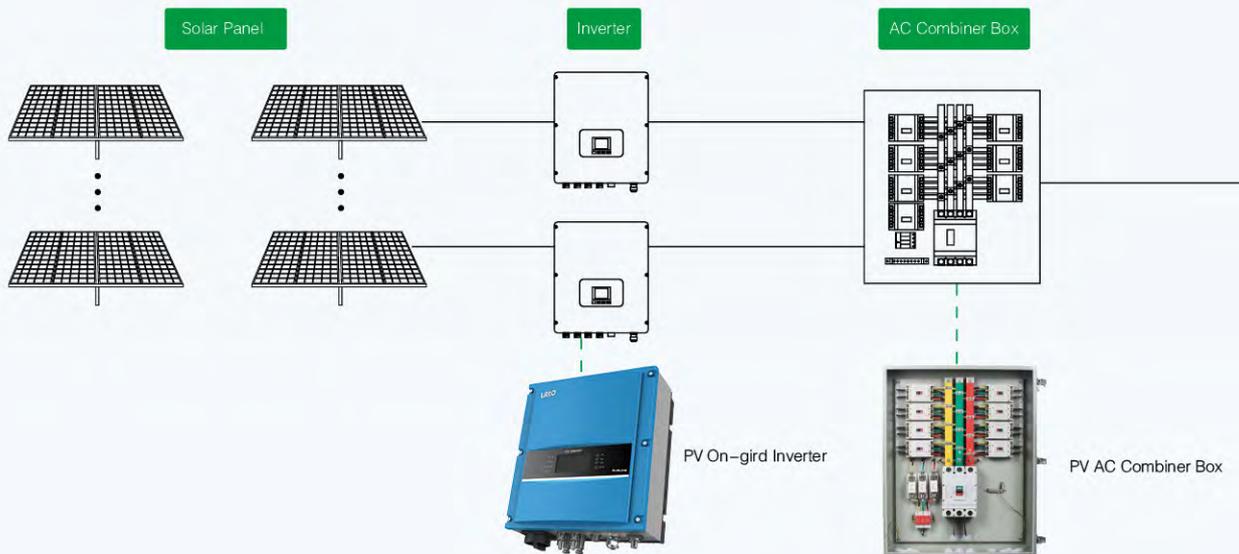
Nemko



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Solar Energy Accessories



PV Set of String Type Grid Inverter : LS/LT (CE, CQC, AS4777.2015, PEA, MEA, IEC62109, G83/G59, EN50438)

PV DC MCB : SL7-PV (CCC, TUV, SAA, IEC)

PV DC Rotate Isolator Swch : SISO-Z (CCC, TUV, SAA, IEC)

PV DC SPD : SUP4-PV (1500V TUV)

PV Inverter Ethernet Connector : SMA4 (CE, ROHS, TUV)

PV Inverter USB Connector : SME4 (CE, ROHS)

PV Inverter USB Connector : SMU4 (CE, ROHS)

PV Waterproof Connector : SMC4 (CE, ROHS, TUV)

PV AC Combiner Box : SHLX-AC (CGC)

PV AC Frame-Type Circuit Breaker : SW8 (CCC, CE)

PV AC MCCB : SM8 (CCC, TUV, CE, IEC)

PV AC MCB : SCB8 (CCC, TUV, IEC)

PV AC Load-Disconnector Switch: SGL (CCC, IEC)

PV AC SPD : SUP1/SUP2 (CE)

PV AC Auto Reclosing MCB : SCB8ZY (CE)

PV AC ATS : SQ3(CE)

High Voltage Earth Switch: SV8

High Voltage Earth Switch: JN15



SISO-Z



SL7-PV



SUP4-PV



SMA4



SMC4



SME4



SMU4



SM8



SGL



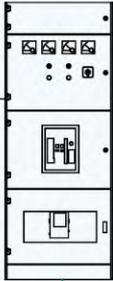
SUP1



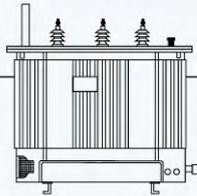
SUP2

GROUND STRING TYPE PV GRID POWER PLANT SPECIFIC PRODUCTS

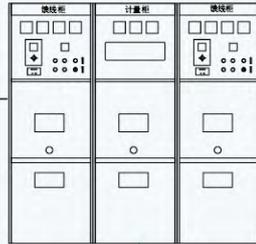
AC Cabinet



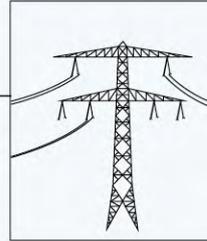
Boosting Transformer



High-Voltage Distribution Cabinet and Measuring System



High-Voltage Power Grid



SW8
Resistant Low Temperature Type
Resistance Salt Fog Type
Plateau Type



SM8



SGL



SCB8



SUP1



SUP2



SZB8ZY



SQ3



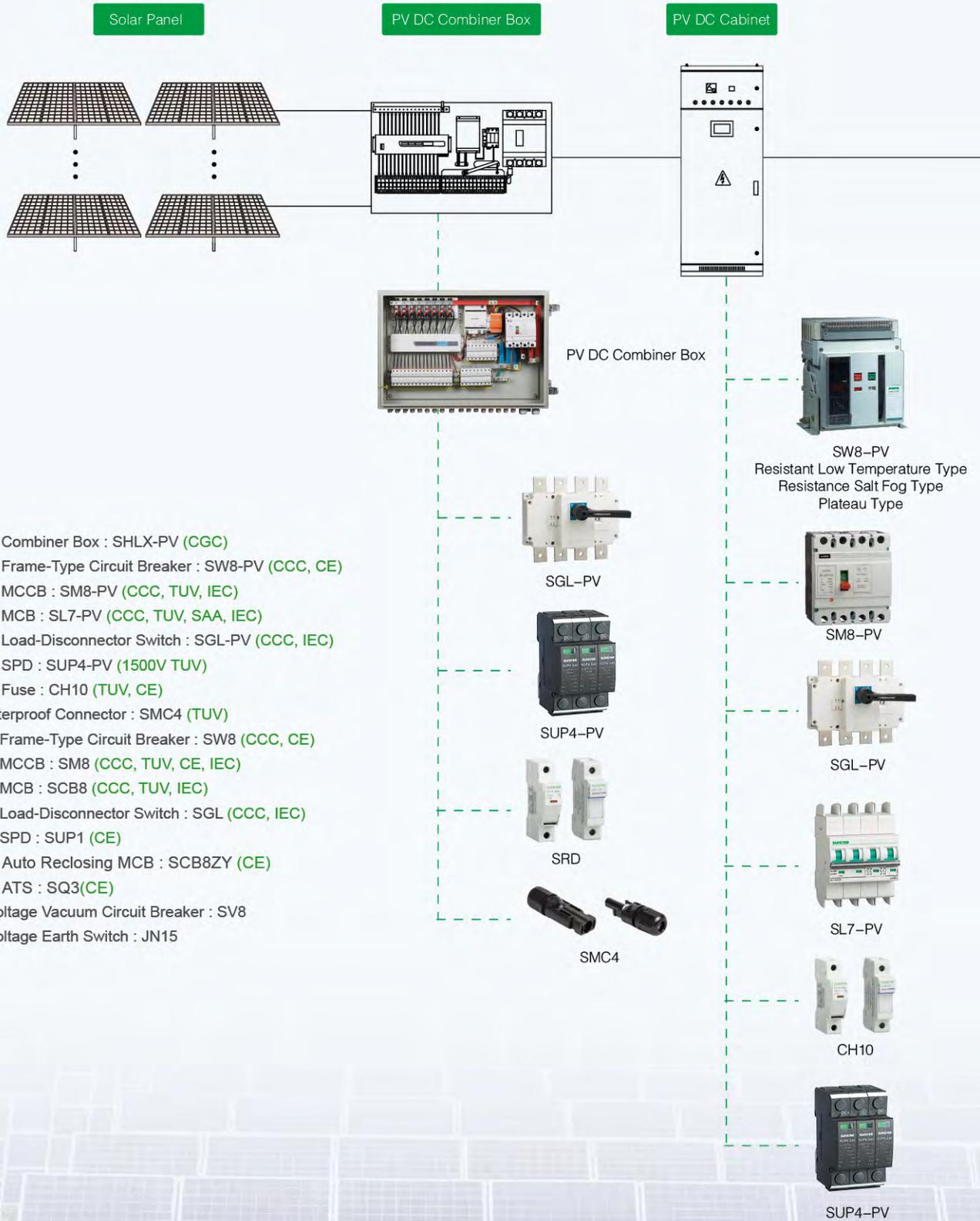
SV8



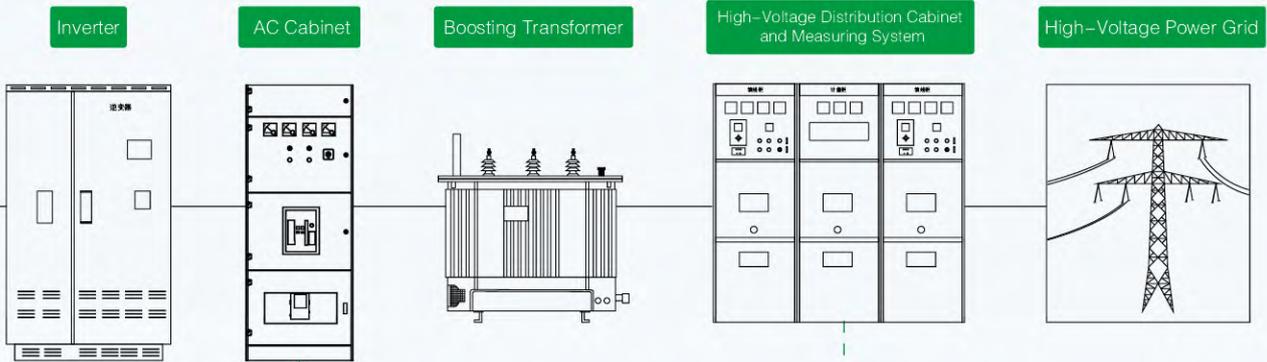
JN15

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GROUND CONCENTRATING PV GRID POWER PLANT SPECIFIC PRODUCTS



SW8
Resistant Low Temperature Type
Resistance Salt Fog Type
Plateau Type



SM8



SGL



SCB8



SUP1



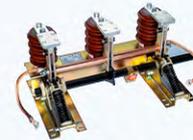
SZB8ZY



SQ3



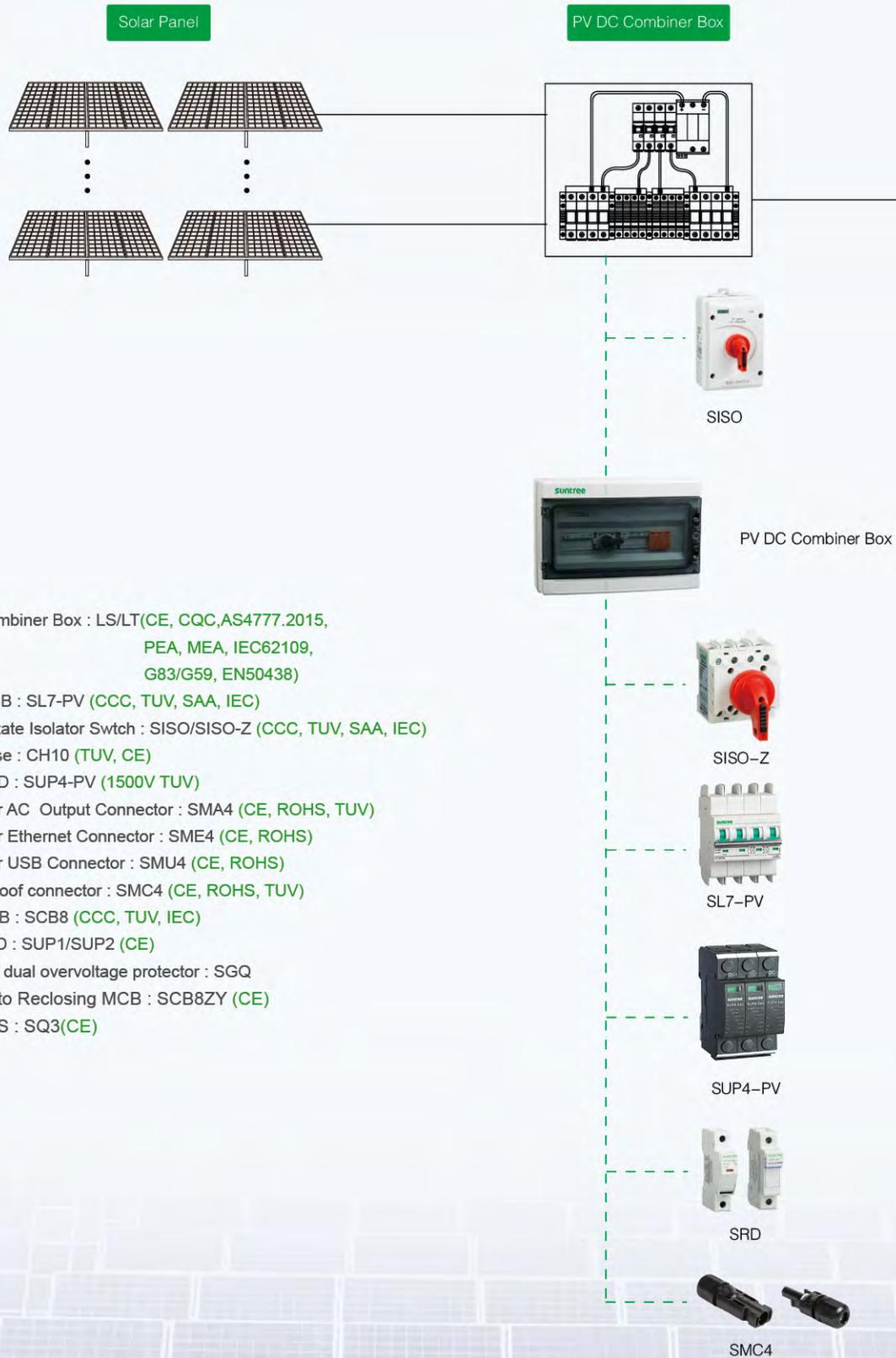
SV8



JN15

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PV DC Combiner Box : LS/LT(CE, CQC, AS4777.2015,
PEA, MEA, IEC62109,
G83/G59, EN50438)

PV DC MCB : SL7-PV (CCC, TUV, SAA, IEC)

PV DC Rotate Isolator Switch : SISO/SISO-Z (CCC, TUV, SAA, IEC)

PV DC Fuse : CH10 (TUV, CE)

PV DC SPD : SUP4-PV (1500V TUV)

PV Inverter AC Output Connector : SMA4 (CE, ROHS, TUV)

PV Inverter Ethernet Connector : SME4 (CE, ROHS)

PV Inverter USB Connector : SMU4 (CE, ROHS)

PV Waterproof connector : SMC4 (CE, ROHS, TUV)

PV AC MCB : SCB8 (CCC, TUV, IEC)

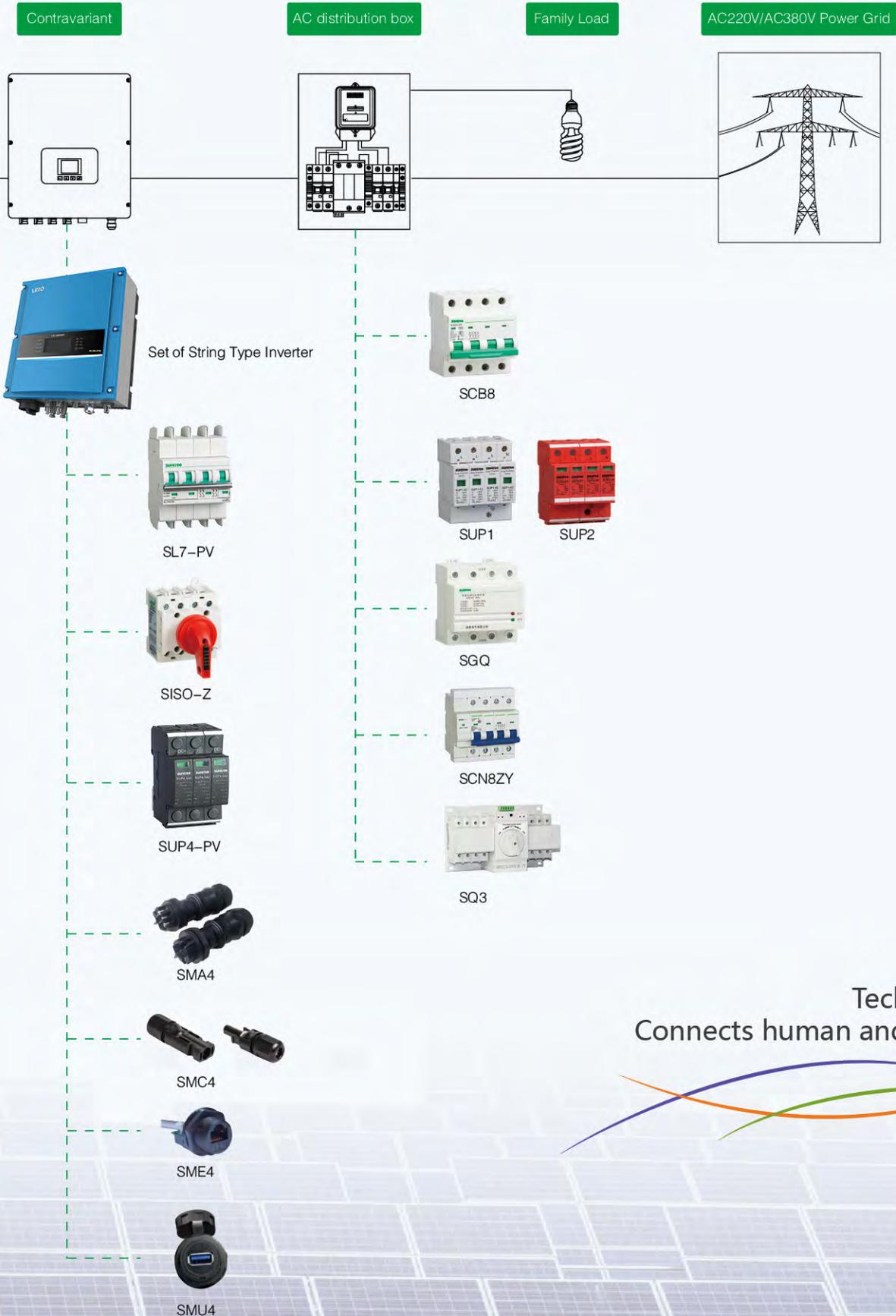
PV AC SPD : SUP1/SUP2 (CE)

PV AC self dual overvoltage protector : SGQ

PV AC Auto Reclosing MCB : SCB8ZY (CE)

PV AC ATS : SQ3(CE)

DISTRIBUTED IN PV GRID POWER PLANT SPECIFIC PRODUCTS

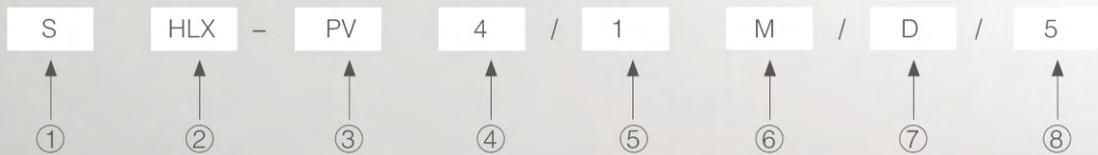


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DC COMBINER BOX TYPE

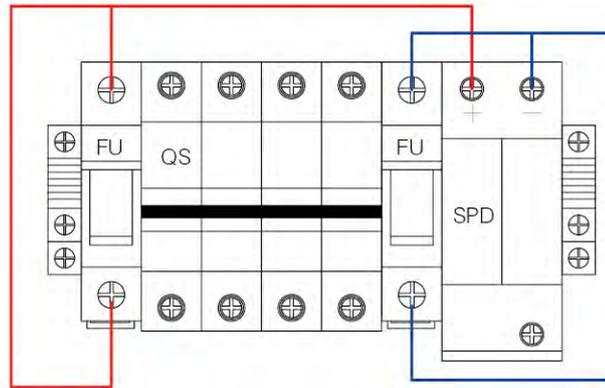


- ① Suntree electric
- ② Product model (combiner box)
- ③ PV
- ④ Input channel (1-24)
- ⑤ No. of output channel of MPPT
- ⑥ Monitoring unit
- ⑦ Diode
- ⑧ DC550V/DC1000V

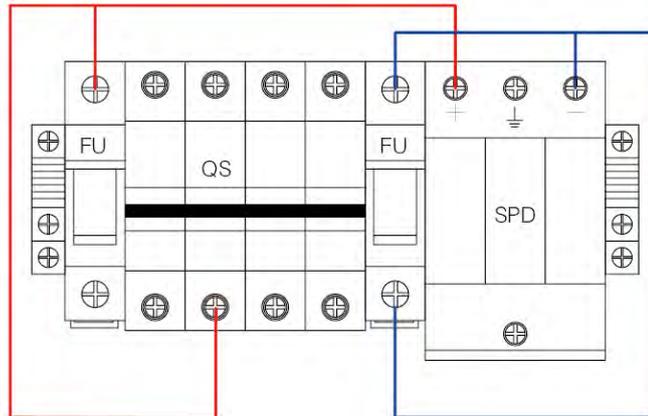


SHLX-PV1/1 DC COMBINER BOX

- High reliability
With DC FUSE
With DC Surge Protection Device
With DC circuit breaker or DC load isolation switch.
- Strong adaptability
IP65 design, waterproof, anti dust and anti ultraviolet.
Strict test for high and low temperature, used widely.
The simple installation, the simplified system wiring, the convenient wiring .
The box body is made of cold rolled steel and other metal materials.
- Flexible configuration
Used for single crystal silicon solar modules, polycrystalline silicon solar modules, thin film solar modules. Current rating of the photovoltaic fuse, circuit breaker, load isolation switch is modified.



DC550V



DC1000V

DESCRIPTION

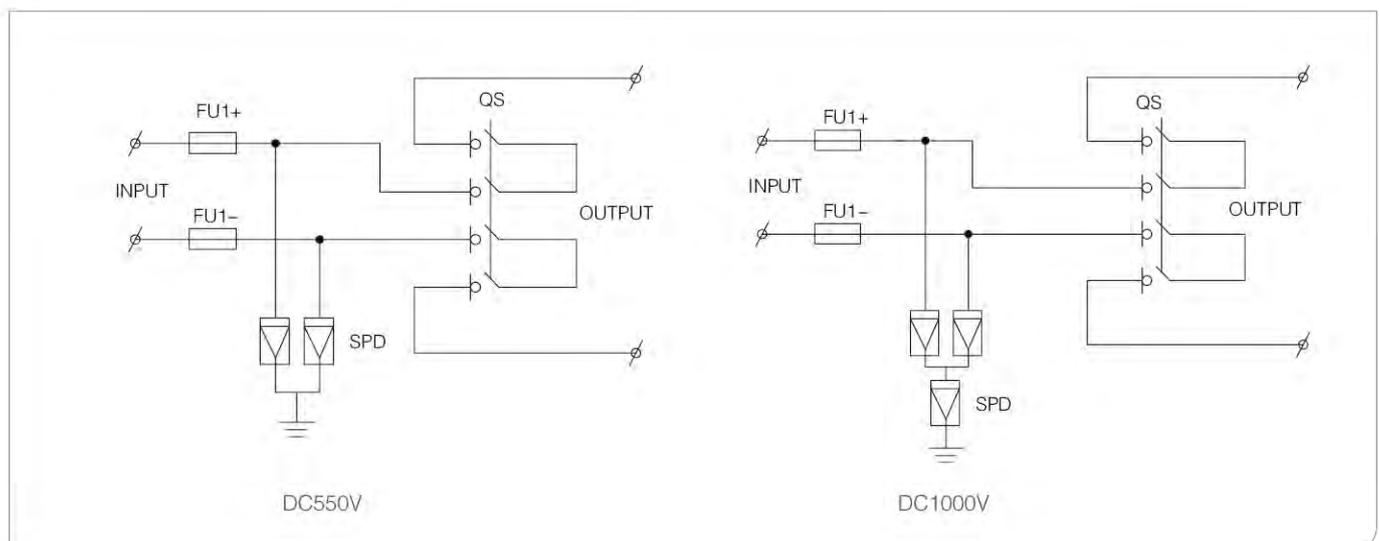
SHLX-PV1/1 combiner box is suitable for inverter (MAX input voltage DC550V/DC1000V, 1 PV input channel, 1 output channel, single MPPT inverter). Box body is made of PVC engineering materials, with test for fire retardant, temperature rise, anti impact, anti ultraviolet, and other testing. IP65 protection grade.

Design and configuration strictly accordance with the "Technical specification for photovoltaic junction equipment " CGC/GF 037:2014. Provide users with a safe, brief, beautiful and applicable photovoltaic system products.

TECHNICAL PARAMETERS

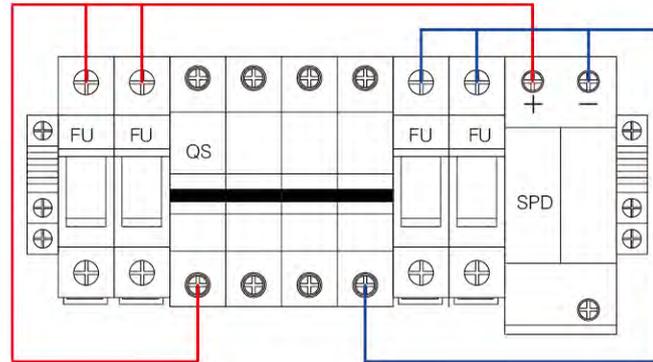
Name		SHLX-PV1/1	
Electric parameter			
System maximum dc voltage	550		1000
Maximum input current for each string		15A	
Maximum input strings		1	
Maximum output switch current		16A/20A	
Number of inverter MPPT		1	
Number of Output strings		1	
Lightning protection			
II grade protection			
Nominal discharge current		20kA	
Maximum discharge current		40kA	
Voltage protection level	2.8kV		3.8kV
Maximum continuous operating voltage U _c	630V		1050V
Poles	2P		3P
Plug-push module			
System			
Protection grade		IP65	
Output switch		DC isolation switch(standard)/DC circuit breaker(optional)	
SMC4 Waterproof Connectors		Standard	
PV dc fuse		Standard	
PV surge protector		Standard	
Monitoring module		Optional	
Preventing diode		Optional	
Box material		PVC	
Installation method		Wall mounting type	
Operating Temperature		-25°C~ +55°C	
Elevation of temperature		2km	
Permissible relative humidity		0-95% , no condensation	
Mechanical parameter			
Width×High×Depth		300×260×140	

SCHEMATIC DIAGRAM

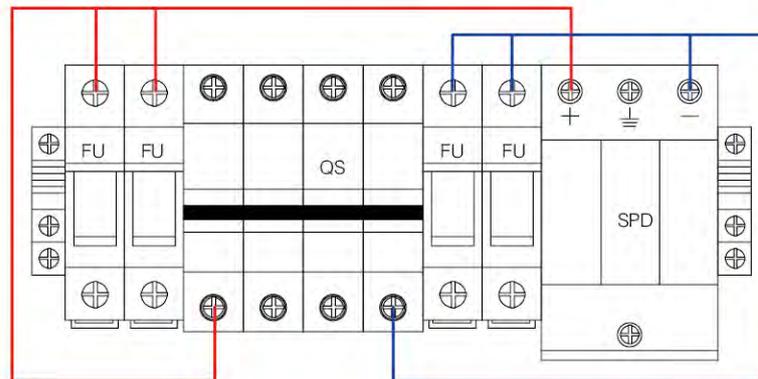


SHLX-PV2/1 DC COMBINER BOX

- High reliability
 - With DC FUSE
 - With DC Surge Protection Device
 - With DC circuit breaker or DC load isolation switch.
- Strong adaptability
 - IP65 design, waterproof, anti dust and anti ultraviolet.
 - Strict test for high and low temperature, used widely.
 - The simple installation, the simplified system wiring, the convenient wiring .
 - The box body is made of cold rolled steel and other metal materials.
- Flexible configuration
 - Used for single crystal silicon solar modules, polycrystalline silicon solar modules, thin film solar modules. Current rating of the photovoltaic fuse, circuit breaker, load isolation switch is modified.



DC550V



DC1000V

DESCRIPTION

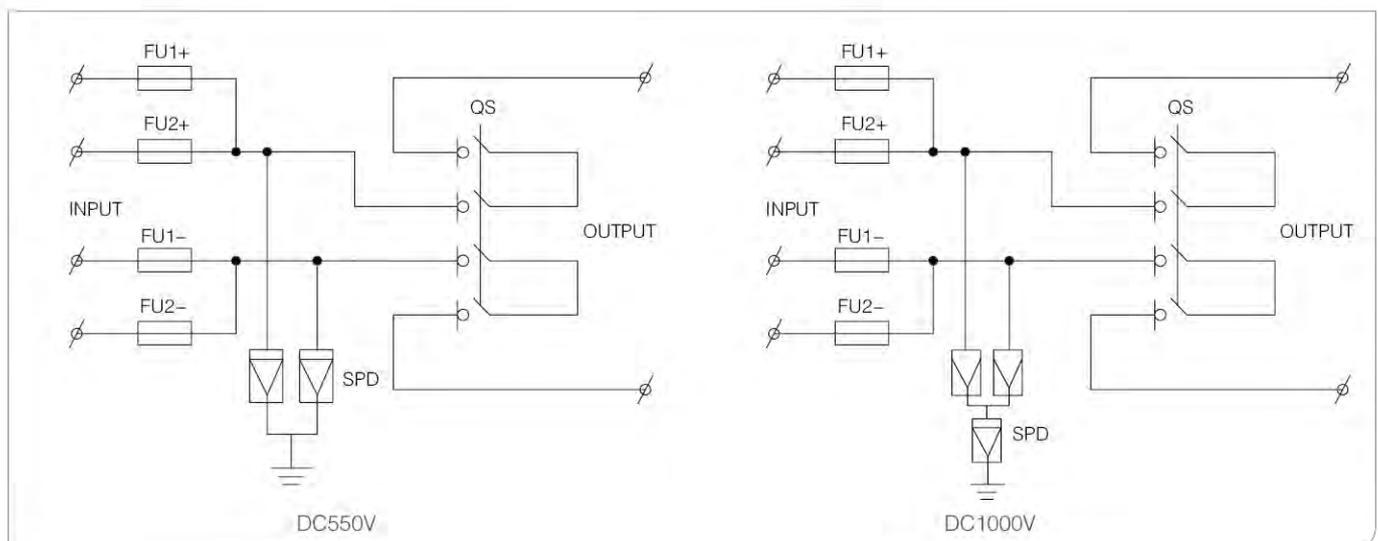
SHLX-PV2/1 combiner box is suitable for inverter (MAX input voltage DC550V/DC1000V, 2 PV input channel, 1 output channel, single MPPT inverter). Box body is made of PVC engineering materials, with test for fire retardant, temperature rise, anti impact, anti ultraviolet, and other testing. IP65 protection grade.

Design and configuration strictly accordance with the "Technical specification for photovoltaic junction equipment " CGC/GF 037:2014. Provide users with a safe, brief, beautiful and applicable photovoltaic system products.

TECHNICAL PARAMETERS

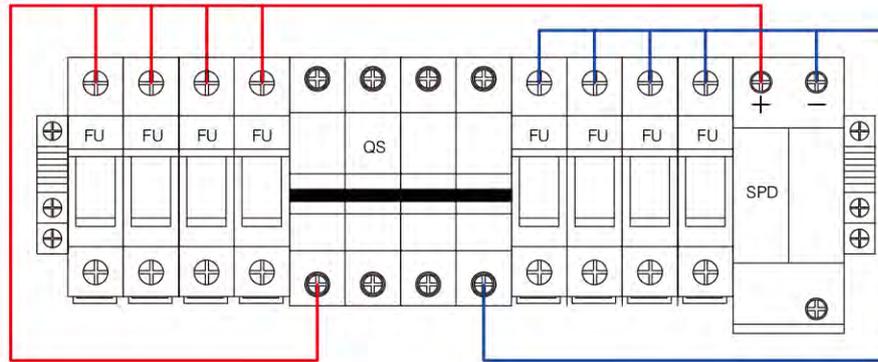
Name		SHLX-PV2/1	
Electric parameter			
System maximum dc voltage	550		1000
Maximum input current for each string		15A	
Maximum input strings		2	
Maximum output switch current		20A/32A	
Number of inverter MPPT		1	
Number of Output strings		1	
Lightning protection			
II grade protection			
Nominal discharge current		20kA	
Maximum discharge current		40kA	
Voltage protection level	2.8kV		3.8kV
Maximum continuous operating voltage U _c	630V		1050V
Poles	2P		3P
Plug-push module			
System			
Protection grade		IP65	
Output switch		DC isolation switch(standard)/DC circuit breaker(optional)	
SMC4 Waterproof Connectors		Standard	
PV dc fuse		Standard	
PV surge protector		Standard	
Monitoring module		Optional	
Preventing diode		Optional	
Box material		PVC	
Installation method		Wall mounting type	
Operating Temperature		-25°C~+55°C	
Elevation of temperature		2km	
Permissible relative humidity		0-95% , no condensation	
Mechanical parameter			
Width×High×Depth		300×260×140	

SCHEMATIC DIAGRAM

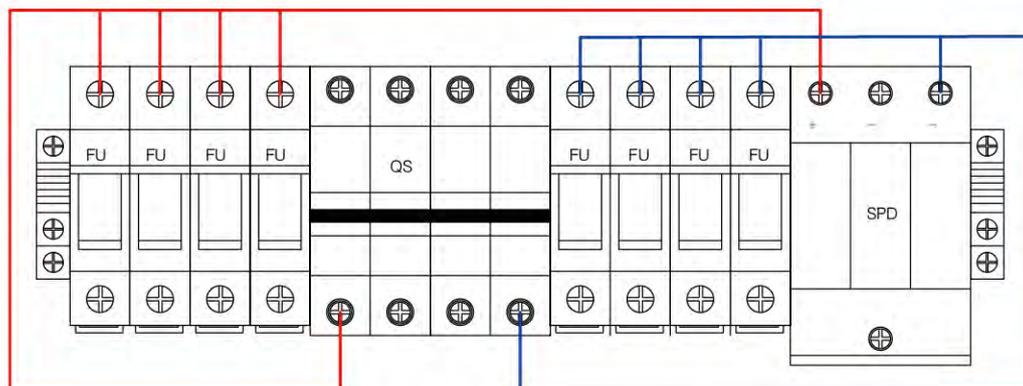


SHLX-PV4/1 DC COMBINER BOX

- High reliability
 - With DC FUSE
 - With DC Surge Protection Device
 - With DC circuit breaker or DC load isolation switch.
- Strong adaptability
 - IP65 design, waterproof, anti dust and anti ultraviolet.
 - Strict test for high and low temperature, used widely.
 - The simple installation, the simplified system wiring, the convenient wiring .
 - The box body is made of cold rolled steel and other metal materials.
- Flexible configuration
 - Used for single crystal silicon solar modules, polycrystalline silicon solar modules, thin film solar modules. Current rating of the photovoltaic fuse, circuit breaker, load isolation switch is modified.



DC550V



DC1000V

DESCRIPTION

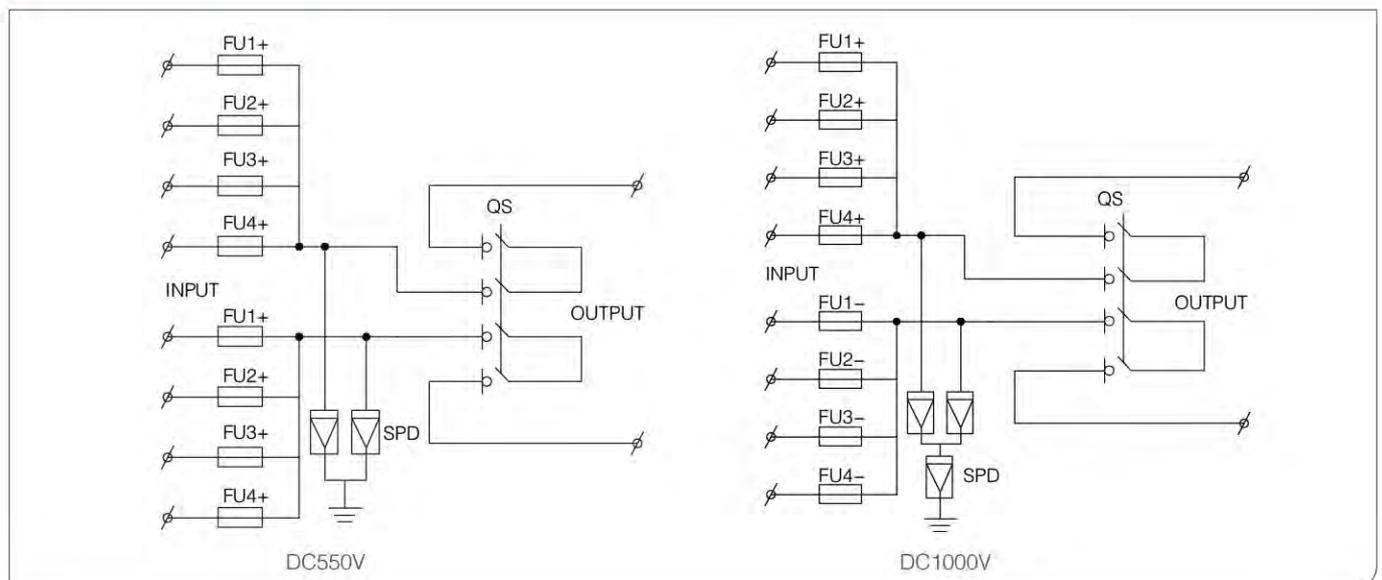
SHLX-PV4/1 combiner box is suitable for inverter (MAX input voltage DC550V/DC1000V, 4 PV input channel, 1 output channel, single MPPT inverter). Box body is made of PVC engineering materials, with test for fire retardant, temperature rise, anti impact, anti ultraviolet, and other testing. IP65 protection grade.

Design and configuration strictly accordance with the "Technical specification for photovoltaic junction equipment " CGC/GF 037:2014. Provide users with a safe, brief, beautiful and applicable photovoltaic system products.

TECHNICAL PARAMETERS

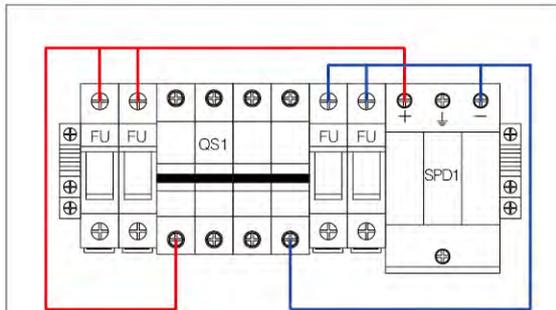
Name	SHLX-PV4/1	
	Electric parameter	
System maximum dc voltage	550	1000
Maximum input current for each string	15A	
Maximum input strings	4	
Maximum output switch current	50A/63A	
Number of inverter MPPT	1	
Number of Output strings	1	
	Lightning protection	
Category of test	II grade protection	
Nominal discharge current	20kA	
Maximum discharge current	40kA	
Voltage protection level	2.8kV	3.8kV
Maximum continuous operating voltage U _c	630V	1050V
Poles	2P	3P
Structure characteristic	Plug-push module	
	System	
Protection grade	IP65	
Output switch	DC isolation switch(standard)/DC circuit breaker(optional)	
SMC4 Waterproof Connectors	Standard	
PV dc fuse	Standard	
PV surge protector	Standard	
Monitoring module	Optional	
Preventing diode	Optional	
Box material	PVC	
Installation method	Wall mounting type	
Operating Temperature	-25°C~+55°C	
Elevation of temperature	2km	
Permissible relative humidity	0-95% , no condensation	
	Mechanical parameter	
Width×High×Depth	410×285×140	

SCHEMATIC DIAGRAM

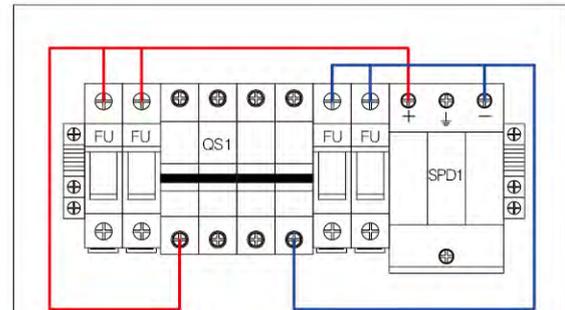


SHLX-PV4/2 DC COMBINER BOX

- High reliability
With DC FUSE
With DC Surge Protection Device
With DC circuit breaker or DC load isolation switch.
- Strong adaptability
IP65 design, waterproof, anti dust and anti ultraviolet.
Strict test for high and low temperature, used widely.
The simple installation, the simplified system wiring, the convenient wiring .
The box body is made of cold rolled steel and other metal materials.
- Flexible configuration
Used for single crystal silicon solar modules, polycrystalline silicon solar modules, thin film solar modules. Current rating of the photovoltaic fuse, circuit breaker, load isolation switch is modified.



DC550V



DC1000V

DESCRIPTION

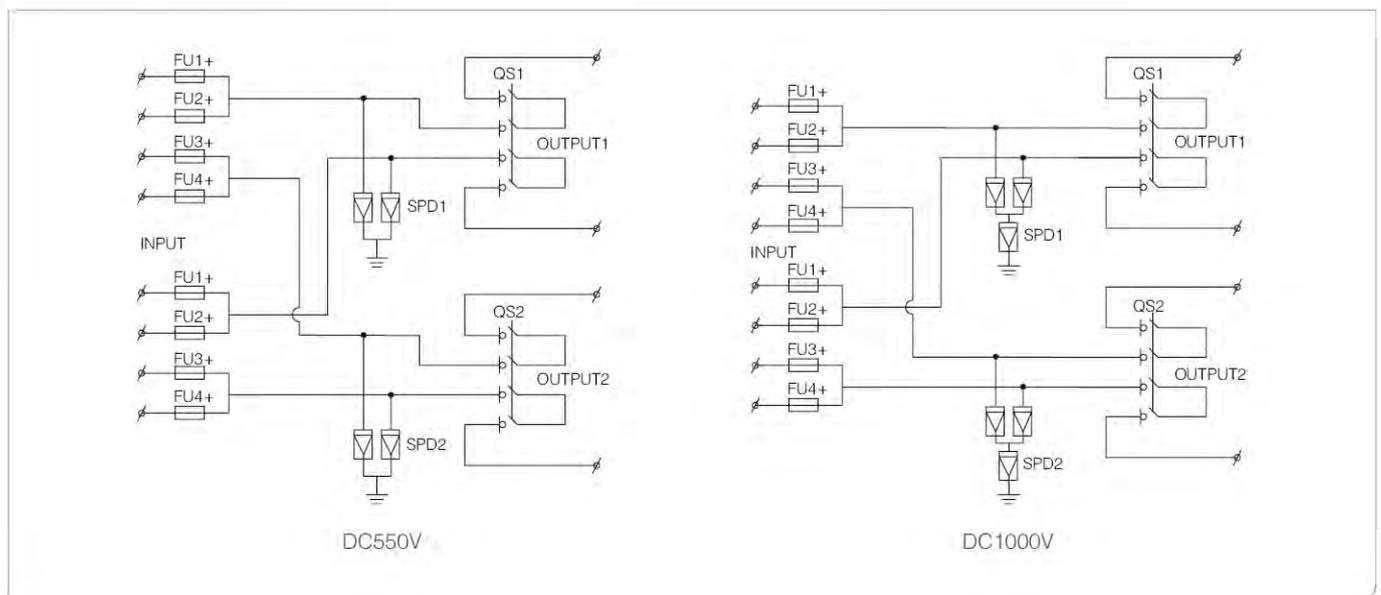
SHLX-PV4/2 combiner box is suitable for inverter (MAX input voltage DC550V/DC1000V, 4 PV input channel, 2 output channel, double MPPT inverter). Box body is made of PVC engineering materials, with test for fire retardant, temperature rise, anti impact, anti ultraviolet, and other testing. IP65 protection grade.

Design and configuration strictly accordance with the "Technical specification for photovoltaic junction equipment " CGC/GF 037:2014. Provide users with a safe, brief, beautiful and applicable photovoltaic system products.

TECHNICAL PARAMETERS

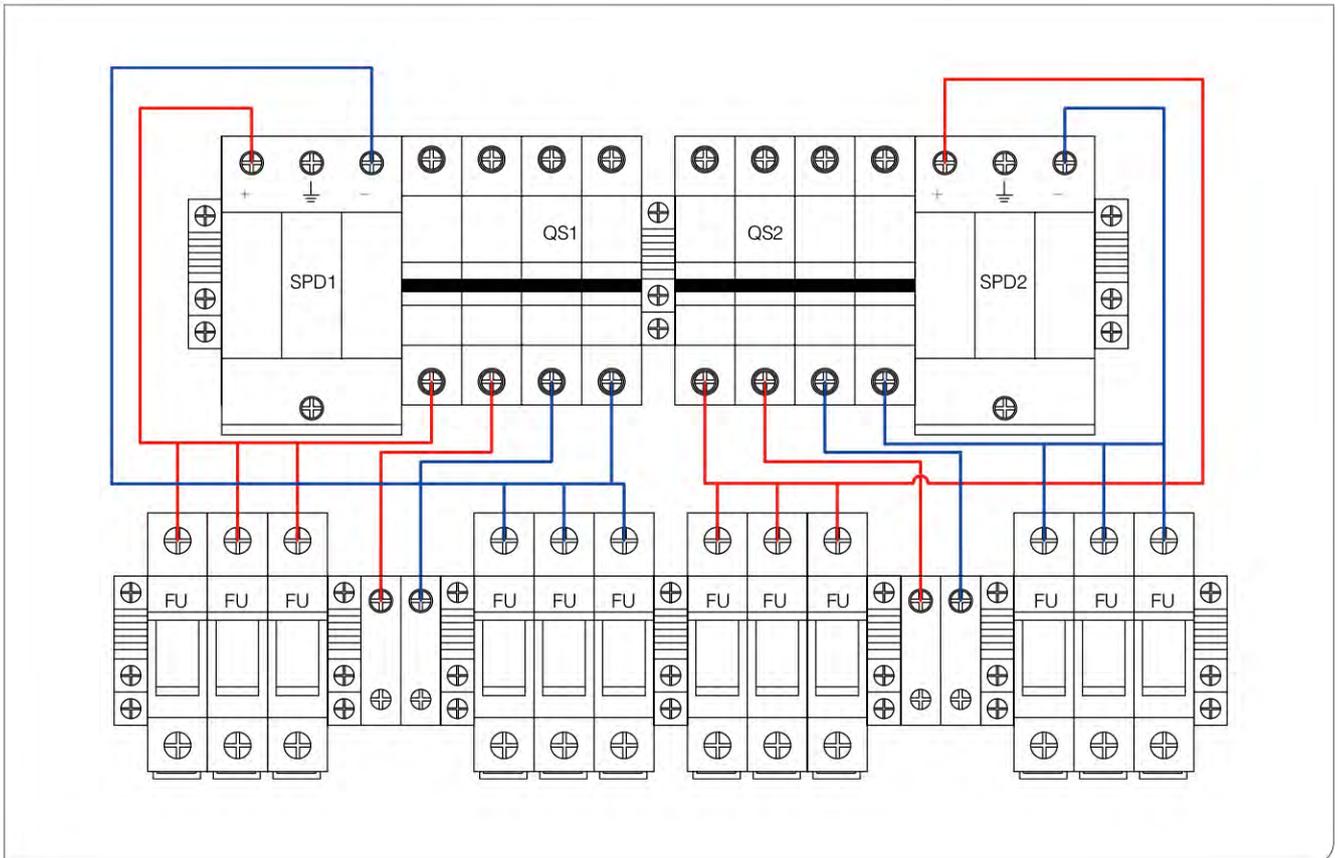
Name		SHLX-PV4/2	
Electric parameter			
System maximum dc voltage	550		1000
Maximum input current for each string		15A	
Maximum input strings		4	
Maximum output switch current		20A/32A	
Number of inverter MPPT		2	
Number of Output strings		2	
Lightning protection			
II grade protection			
Nominal discharge current		20kA	
Maximum discharge current		40kA	
Voltage protection level	2.8kV		3.8kV
Maximum continuous operating voltage Uc	630V		1050V
Poles	2P		3P
Plug-push module			
System			
Protection grade		IP65	
Output switch		DC isolation switch(standard)/DC circuit breaker(optional)	
SMC4 Waterproof Connectors		Standard	
PV dc fuse		Standard	
PV surge protector		Standard	
Monitoring module		Optional	
Preventing diode		Optional	
Box material		PVC	
Installation method		Wall mounting type	
Operating Temperature		-25°C~ +55°C	
Elevation of temperature		2km	
Permissible relative humidity		0-95% , no condensation	
Mechanical parameter			
Width×High×Depth		300×415×140	

SCHEMATIC DIAGRAM



SHLX-PV6/2 DC COMBINER BOX

- High reliability
With DC FUSE
With DC Surge Protection Device
With DC circuit breaker or DC load isolation switch.
- Strong adaptability
IP65 design, waterproof, anti dust and anti ultraviolet.
Strict test for high and low temperature, used widely.
The simple installation, the simplified system wiring, the convenient wiring .
The box body is made of cold rolled steel and other metal materials.
- Flexible configuration
Used for single crystal silicon solar modules, polycrystalline silicon solar modules, thin film solar modules. Current rating of the photovoltaic fuse, circuit breaker, load isolation switch is modified.



DESCRIPTION

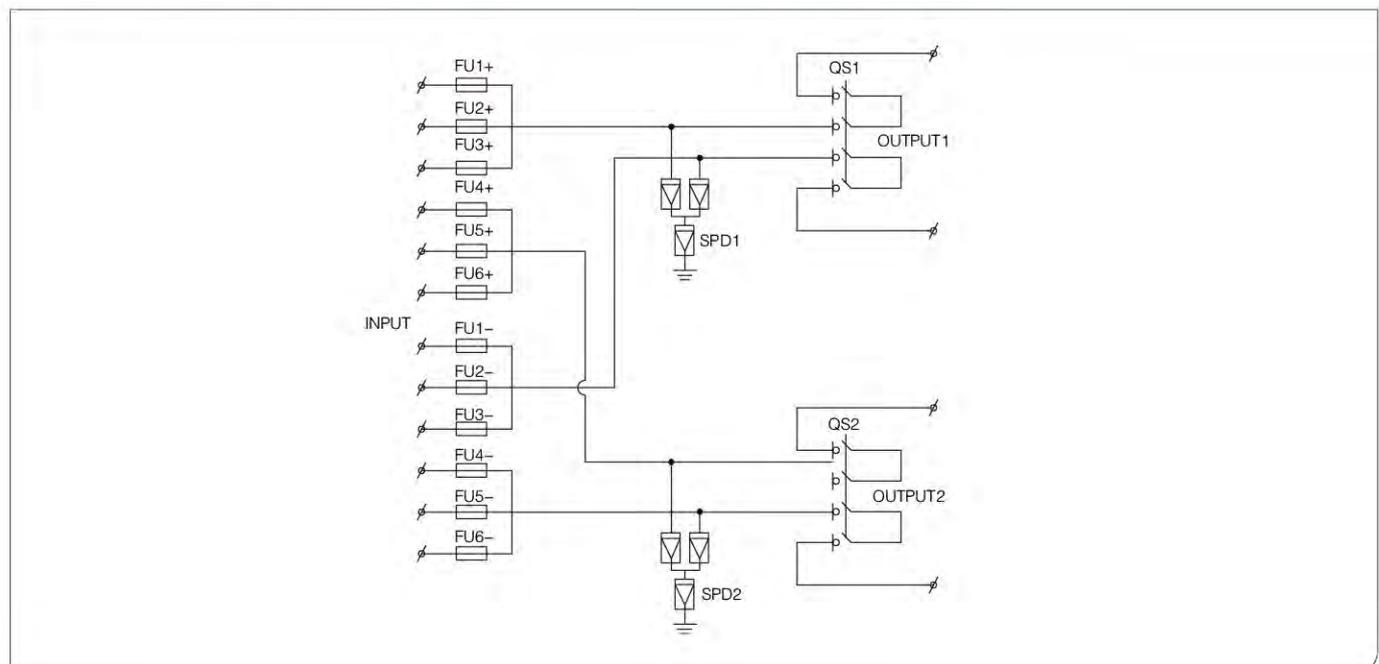
SHLX-PV6/2 combiner box is suitable for inverter (MAX input voltage DC1000V, 6 PV input channel, 2 output channel, double MPPT inverter). Box body is made of PVC engineering materials, with test for fire retardant, temperature rise, anti impact, anti ultraviolet, and other testing. IP65 protection grade.

Design and configuration strictly accordance with the "Technical specification for photovoltaic junction equipment " CGC/GF 037:2014. Provide users with a safe, brief, beautiful and applicable photovoltaic system products.

TECHNICAL PARAMETERS

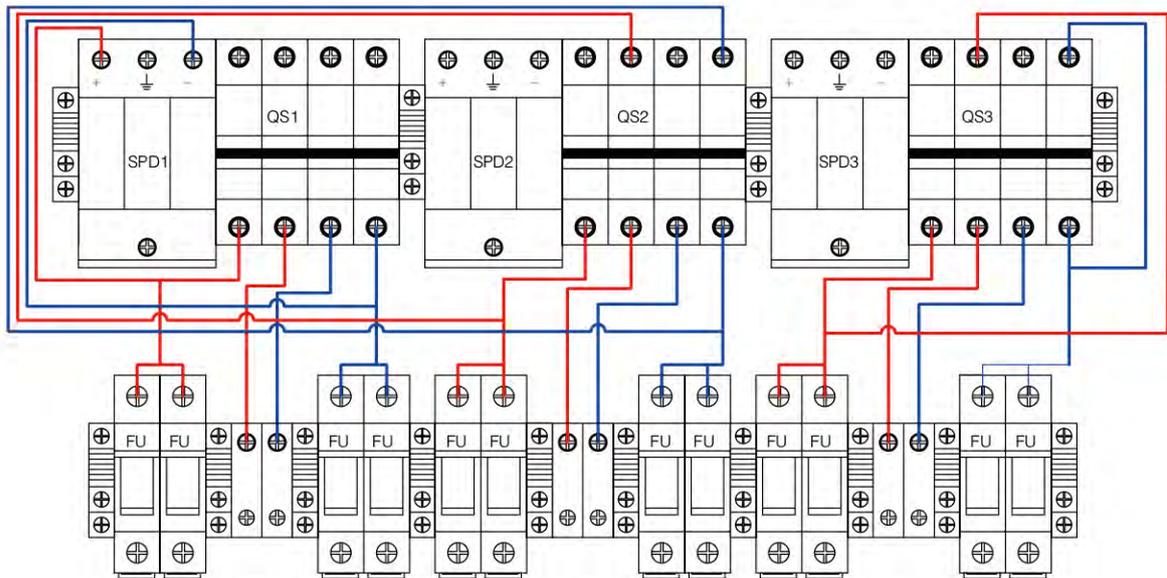
Name	SHLX-PV6/2
Electric parameter	
System maximum dc voltage	1000
Maximum input current for each string	15A
Maximum input strings	6
Maximum output switch current	32A/40A
Number of inverter MPPT	2
Number of Output strings	2
Lightning protection	
II grade protection	
Nominal discharge current	20kA
Maximum discharge current	40kA
Voltage protection level	3.8kV
Maximum continuous operating voltage U _c	1050V
Poles	3P
Plug-push module	
System	
Protection grade	IP65
Output switch	DC isolation switch(standard)/DC circuit breaker(optional)
SMC4 Waterproof Connectors	Standard
PV dc fuse	Standard
PV surge protector	Standard
Monitoring module	Optional
Preventing diode	Optional
Box material	PVC
Installation method	Wall mounting type
Operating Temperature	-25°C ~ +55°C
Elevation of temperature	2km
Permissible relative humidity	0~95% , no condensation
Mechanical parameter	
Width×High×Depth	400×300×160

SCHEMATIC DIAGRAM



SHLX-PV6/3 DC COMBINER BOX

- High reliability
 - With DC FUSE
 - With DC Surge Protection Device
 - With DC circuit breaker or DC load isolation switch.
- Strong adaptability
 - IP65 design, waterproof, anti dust and anti ultraviolet.
 - Strict test for high and low temperature, used widely.
 - The simple installation, the simplified system wiring, the convenient wiring .
 - The box body is made of cold rolled steel and other metal materials.
- Flexible configuration
 - Used for single crystal silicon solar modules, polycrystalline silicon solar modules, thin film solar modules. Current rating of the photovoltaic fuse, circuit breaker, load isolation switch is modified.



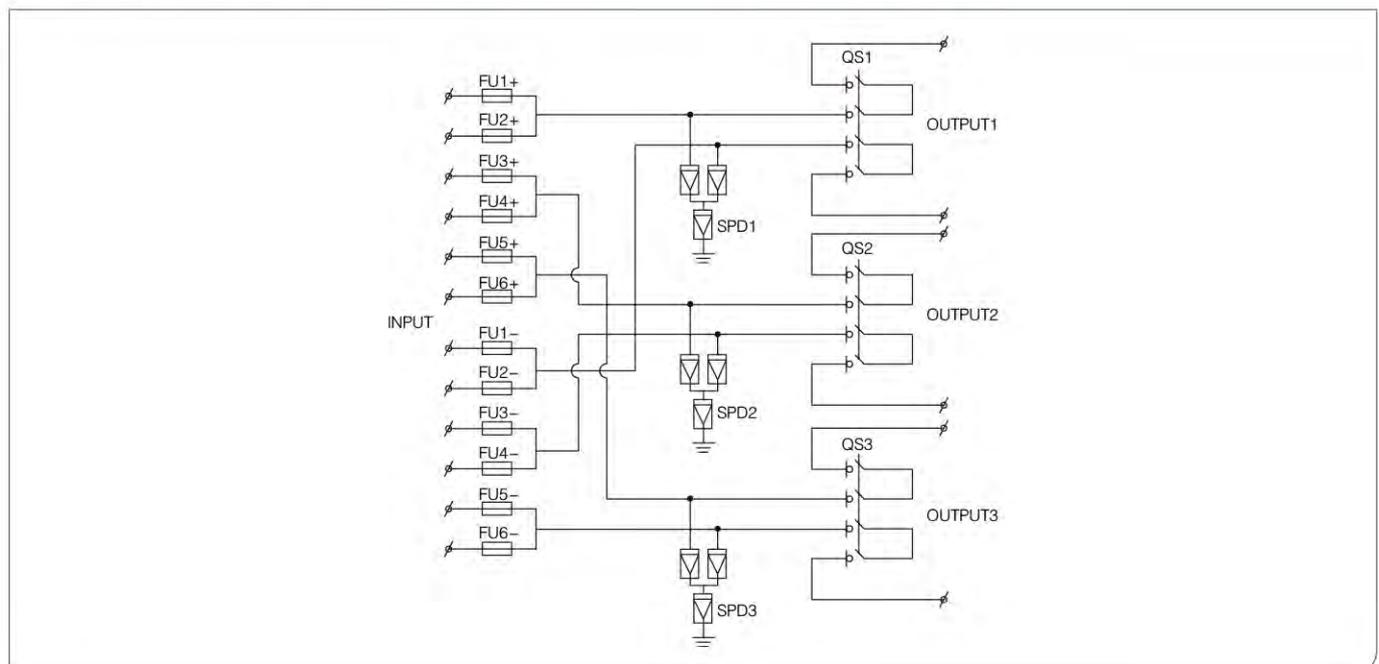
DESCRIPTION

SHLX-PV6/3 combiner box is suitable for inverter (MAX input voltage DC1000V, 6 PV input channel, 3 output channel). Box body is made of PVC engineering materials, with test for fire retardant, temperature rise, anti impact, anti ultraviolet, and other testing. IP65 protection grade. Design and configuration strictly accordance with the "Technical specification for photovoltaic junction equipment " CGC/GF 037:2014. Provide users with a safe, brief, beautiful and applicable photovoltaic system products.

TECHNICAL PARAMETERS

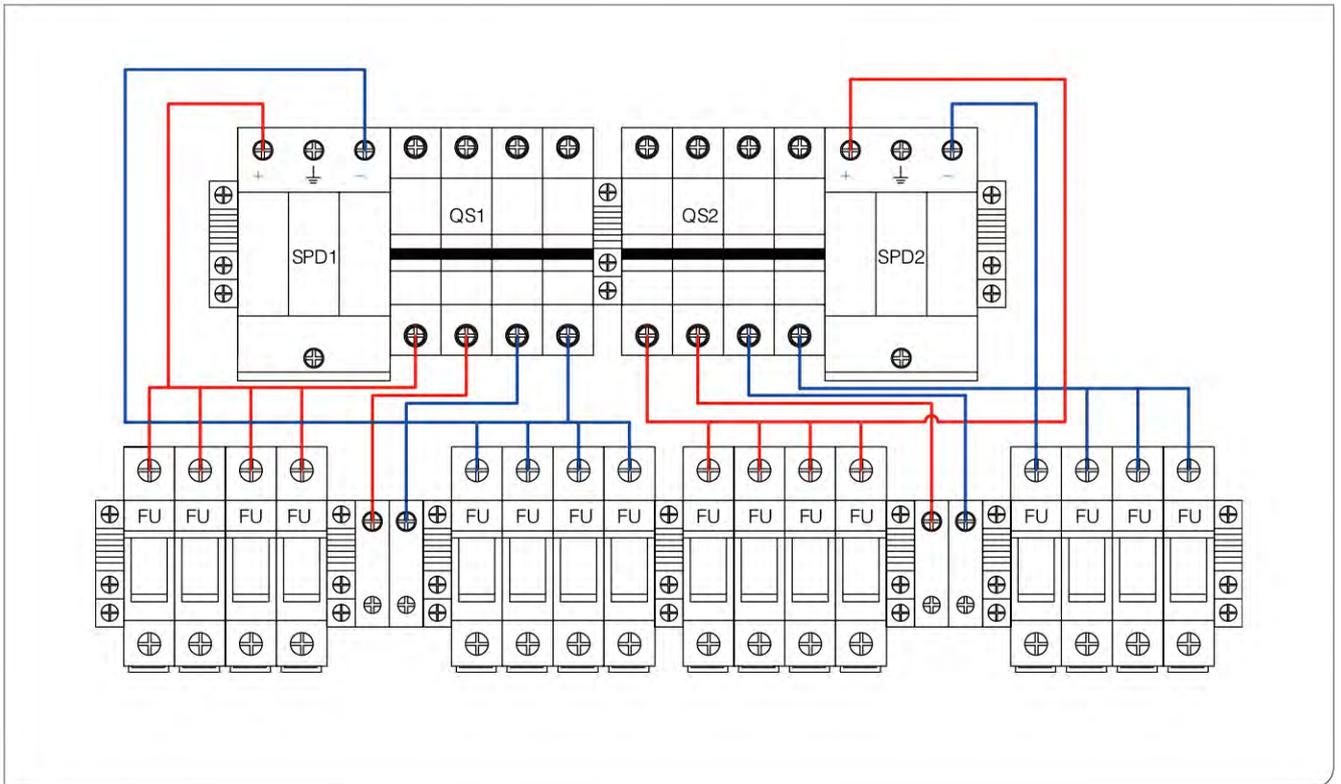
Name	SHLX-PV6/3
Electric parameter	
System maximum dc voltage	1000
Maximum input current for each string	15A
Maximum input strings	6
Maximum output switch current	20A/32A
Number of inverter MPPT	3
Number of Output strings	3
Lightning protection	
II grade protection	
Category of test	II grade protection
Nominal discharge current	20kA
Maximum discharge current	40kA
Voltage protection level	3.8kV
Maximum continuous operating voltage U _c	1050V
Poles	3P
Structure characteristic	Plug-push module
System	
Protection grade	IP65
Output switch	DC isolation switch(standard)/DC circuit breaker(optional)
SMC4 Waterproof Connectors	Standard
PV dc fuse	Standard
PV surge protector	Standard
Monitoring module	Optional
Preventing diode	Optional
Box material	PVC
Installation method	Wall mounting type
Operating Temperature	-25°C ~ +55°C
Elevation of temperature	2km
Permissible relative humidity	0~95% , no condensation
Mechanical parameter	
Width×High×Depth	500×400×190

SCHEMATIC DIAGRAM



SHLX-PV8/2 DC COMBINER BOX

- High reliability
 - With DC FUSE
 - With DC Surge Protection Device
 - With DC circuit breaker or DC load isolation switch.
- Strong adaptability
 - IP65 design, waterproof, anti dust and anti ultraviolet.
 - Strict test for high and low temperature, used widely.
 - The simple installation, the simplified system wiring, the convenient wiring .
 - The box body is made of cold rolled steel and other metal materials.
- Flexible configuration
 - Used for single crystal silicon solar modules, polycrystalline silicon solar modules, thin film solar modules. Current rating of the photovoltaic fuse, circuit breaker, load isolation switch is modified.



DESCRIPTION

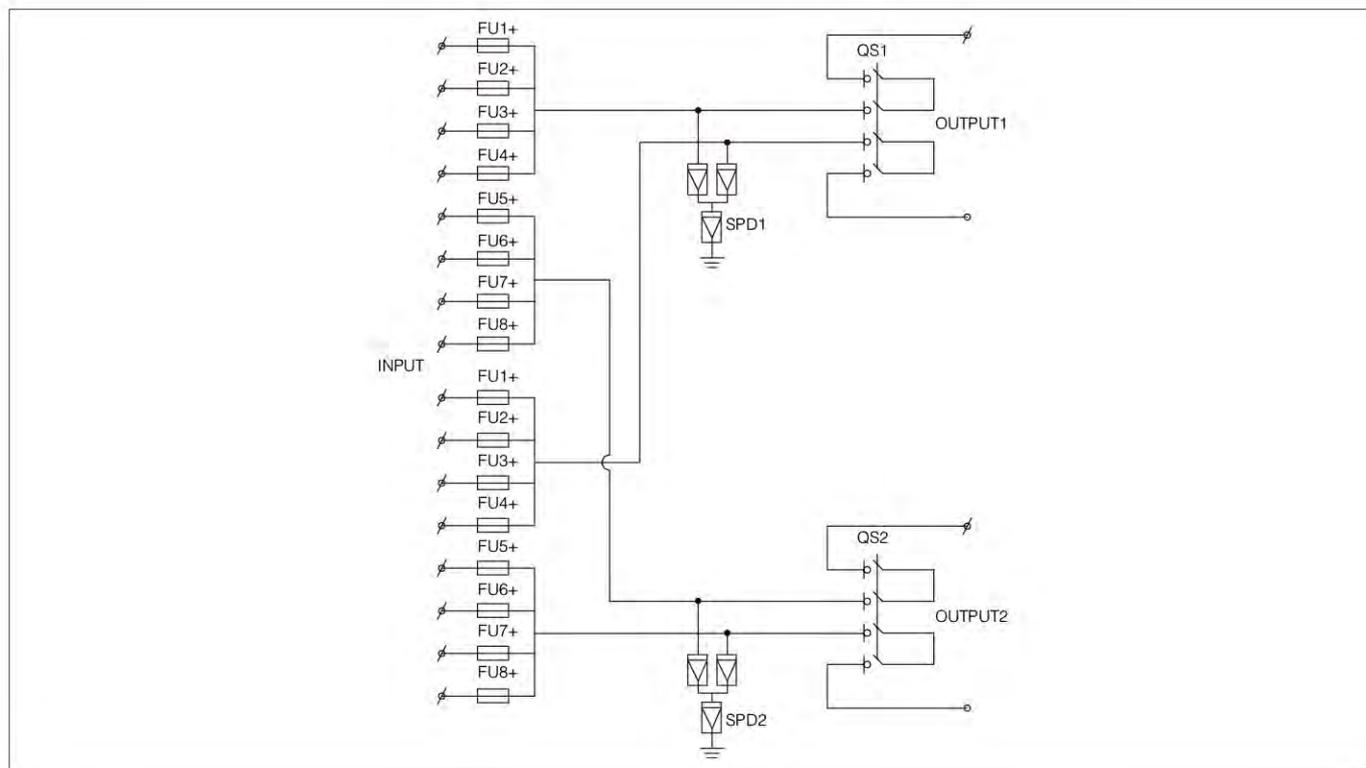
SHLX-PV8/2 combiner box is suitable for inverter (MAX input voltage DC1000V, 8 PV input channel, 2 output channel, double MPPT inverter). Box body is made of PVC engineering materials, with test for fire retardant, temperature rise, anti impact, anti ultraviolet, and other testing. IP65 protection grade.

Design and configuration strictly accordance with the "Technical specification for photovoltaic junction equipment " CGC/GF 037:2014. Provide users with a safe, brief, beautiful and applicable photovoltaic system products.

TECHNICAL PARAMETERS

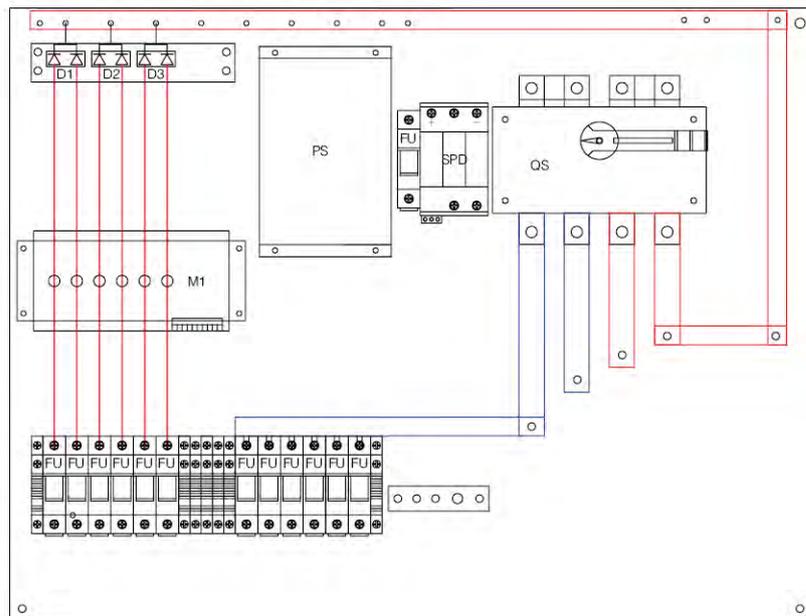
Name	SHLX-PV8/2
	Electric parameter
System maximum dc voltage	1000
Maximum input current for each string	15A
Maximum input strings	8
Maximum output switch current	20A/32A
Number of inverter MPPT	2
Number of Output strings	2
	Lightning protection
Category of test	II grade protection
Nominal discharge current	20kA
Maximum discharge current	40kA
Voltage protection level	3.8kV
Maximum continuous operating voltage U _c	1050V
Poles	3P
Structure characteristic	Plug-push module
	System
Protection grade	IP65
Output switch	DC isolation switch(standard)/DC circuit breaker(optional)
SMC4 Waterproof Connectors	Standard
PV dc fuse	Standard
PV surge protector	Standard
Monitoring module	Optional
Preventing diode	Optional
Box material	PVC
Installation method	Wall mounting type
Operating Temperature	-25°C~+55°C
Elevation of temperature	2km
Permissible relative humidity	0~95% , no condensation
	Mechanical parameter
Width×High×Depth	500×400×190

SCHEMATIC DIAGRAM



SHLX-PV6/1 DC COMBINER BOX

- High reliability
 - With DC FUSE
 - With DC Surge Protection Device
 - With DC circuit breaker or DC load isolation switch.
- Strong adaptability
 - IP65 design, waterproof, anti dust and anti ultraviolet.
 - Strict test for high and low temperature, used widely.
 - The simple installation, the simplified system wiring, the convenient wiring .
 - The box body is made of cold rolled steel and other metal materials.
- Flexible configuration
 - Used for single crystal silicon solar modules, polycrystalline silicon solar modules, thin film solar modules. Current rating of the photovoltaic fuse, circuit breaker, load isolation switch is modified.



DESCRIPTION

SHLX-PV6/1 PV combiner box bus synthetic DC input of 6 PV components to 1 output. Each channel is with a fuse. Output side is equipped with lightning protection and circuit breaker. It greatly simplify input wiring of DC power distribution cabinet and inverter. Realize lightning protection, short circuit protection and grounding protection. PV combiner box divided into two types: intelligent box and non-intelligent box. Intelligent PV combiner box is equipped with monitoring unit, then detect input current of each string, detect inside temperature, detect lightning protection status, detect circuit breaker status and summarize output voltage and so on.

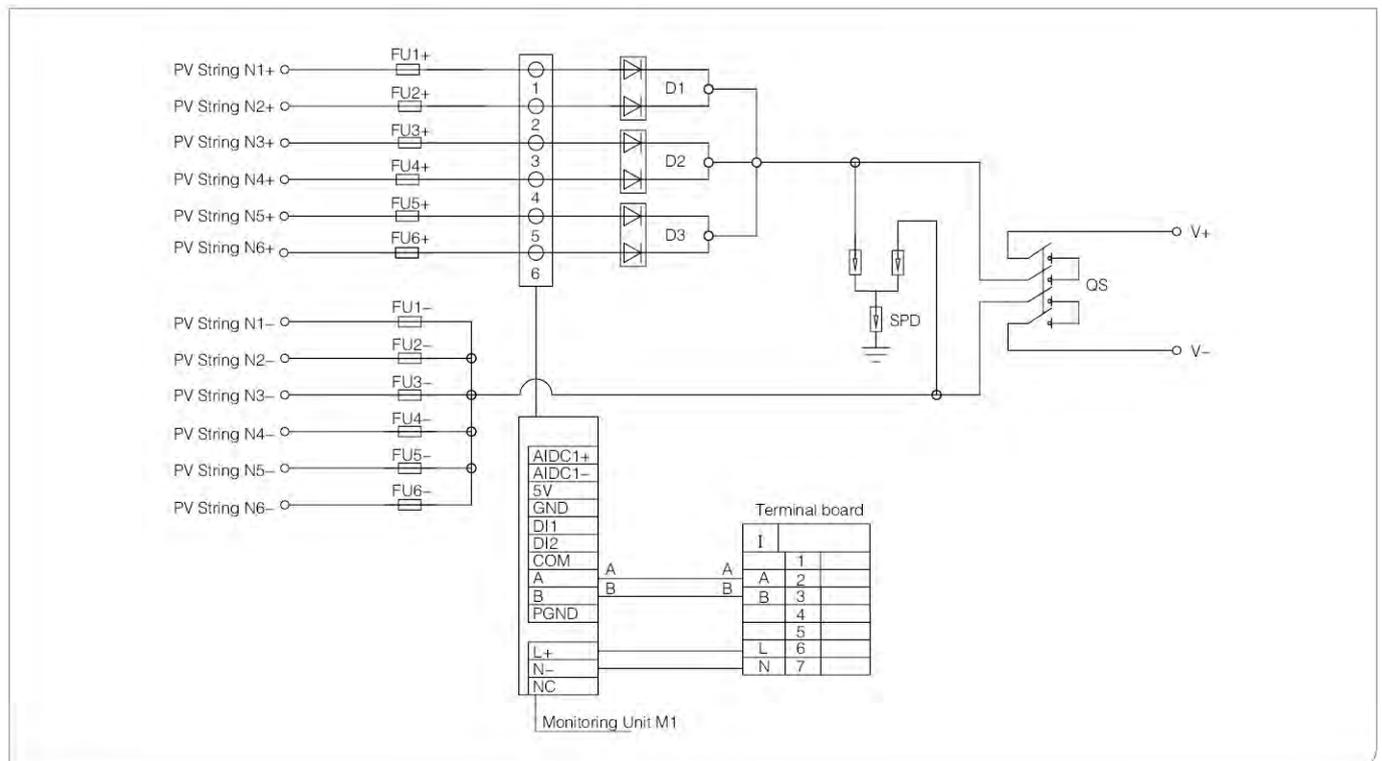
Design and configuration strictly accordance with the "Technical specification for photovoltaic junction equipment " CGC/GF 037:2014. Provide users with a safe, brief, beautiful and applicable photovoltaic system products.

The product adopts outdoor wall mounted type, which adapt to the harsh environment. In addition to the core components, the other can be customized by user requirements.

TECHNICAL PARAMETERS

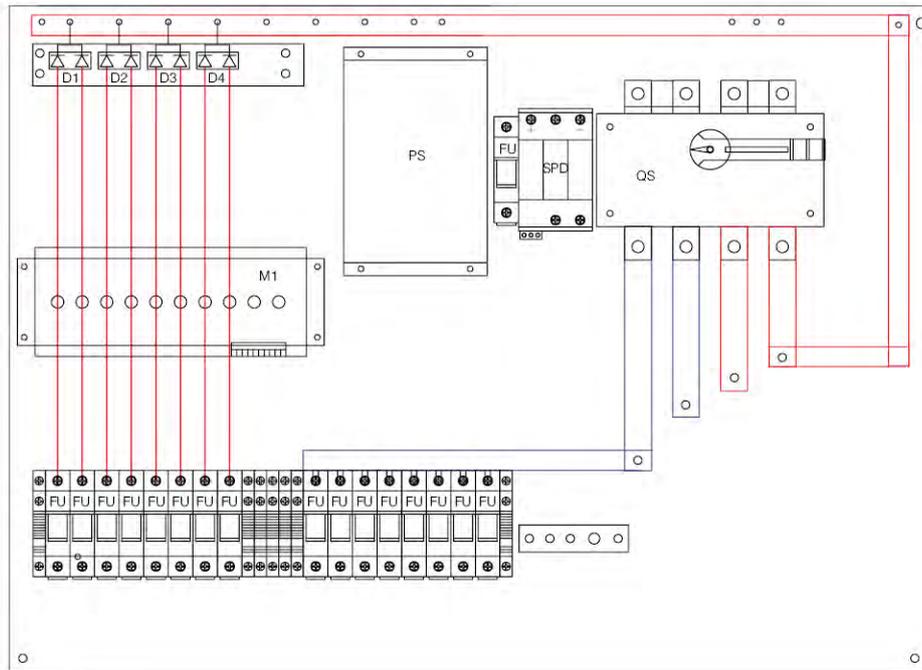
Name	SHLX-PV6/1
	Electric parameter
System maximum dc voltage	1000
Maximum input current for each string	15A
Maximum input strings	6
Maximum output switch current	20A/32A
Number of inverter MPPT	N
Number of Output strings	1
	Lightning protection
Category of test	II grade protection
Nominal discharge current	20kA
Maximum discharge current	40kA
Voltage protection level	3.8kV
Maximum continuous operating voltage U _c	1050V
Poles	3P
Structure characteristic	Plug-push module
	System
Protection grade	IP65
Output switch	DC isolation switch(standard)/DC circuit breaker(optional)
SMC4 Waterproof Connectors	Standard
PV dc fuse	Standard
PV surge protector	Standard
Monitoring module	Optional
Preventing diode	Optional
Box material	Metal
Installation method	Wall mounting type
Operating Temperature	-25°C ~ +55°C
Elevation of temperature	2km
Permissible relative humidity	0~95% , no condensation

SCHEMATIC DIAGRAM



SHLX-PV8/1 DC COMBINER BOX

- High reliability
 - With DC FUSE
 - With DC Surge Protection Device
 - With DC circuit breaker or DC load isolation switch.
- Strong adaptability
 - IP65 design, waterproof, anti dust and anti ultraviolet.
 - Strict test for high and low temperature, used widely.
 - The simple installation, the simplified system wiring, the convenient wiring .
 - The box body is made of cold rolled steel and other metal materials.
- Flexible configuration
 - Used for single crystal silicon solar modules, polycrystalline silicon solar modules, thin film solar modules. Current rating of the photovoltaic fuse, circuit breaker, load isolation switch is modified.



DESCRIPTION

SHLX-PV8/1 PV combiner box bus synthetic DC input of 8 PV components to 1 output. Each channel is with a fuse. Output side is equipped with lightning protection and circuit breaker. It greatly simplify input wiring of DC power distribution cabinet and inverter. Realize lightning protection, short circuit protection and grounding protection. PV combiner box divided into two types: intelligent box and non-intelligent box. Intelligent PV combiner box is equipped with monitoring unit, then detect input current of each string, detect inside temperature, detect lightning protection status, detect circuit breaker status and summarize output voltage and so on.

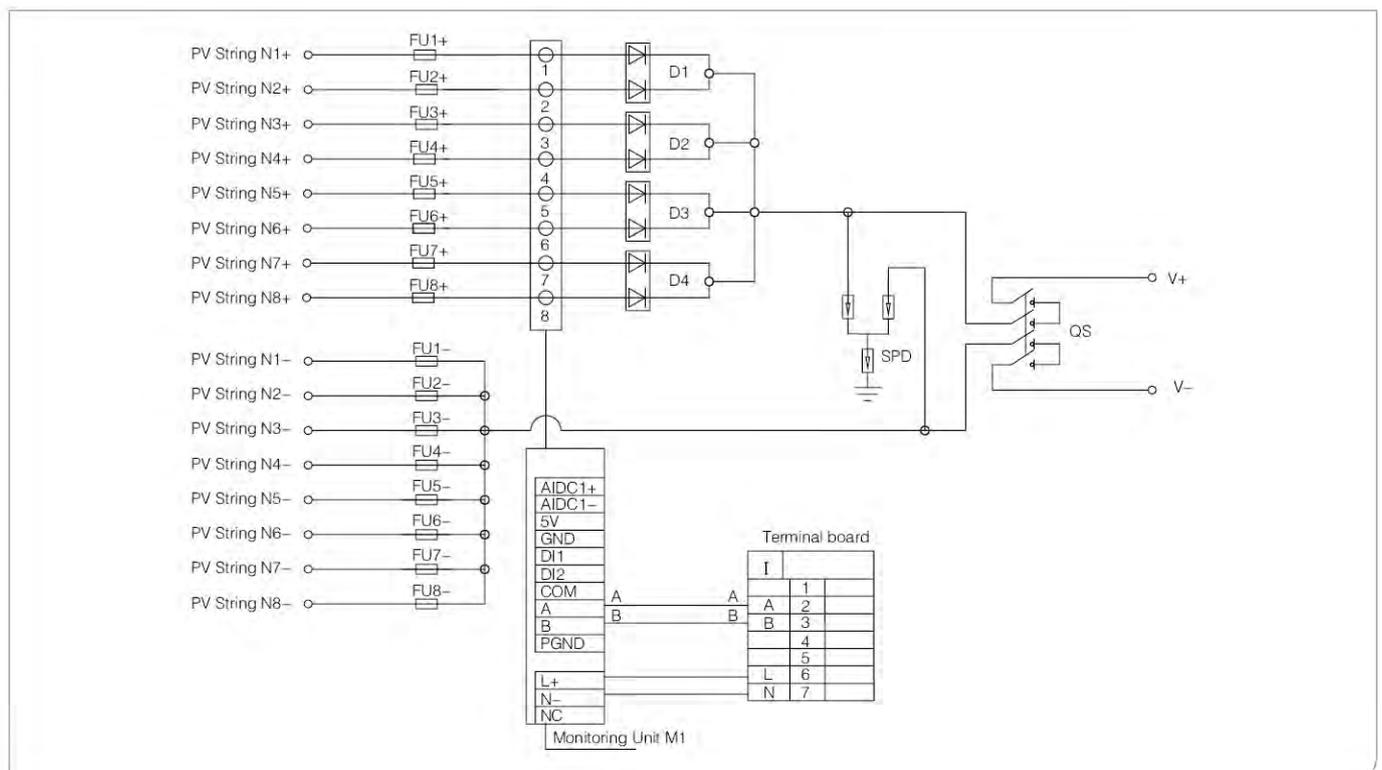
Design and configuration strictly accordance with the "Technical specification for photovoltaic junction equipment " CGC/GF 037:2014. Provide users with a safe, brief, beautiful and applicable photovoltaic system products.

The product adopts outdoor wall mounted type, which adapt to the harsh environment. In addition to the core components, the other can be customized by user requirements.

TECHNICAL PARAMETERS

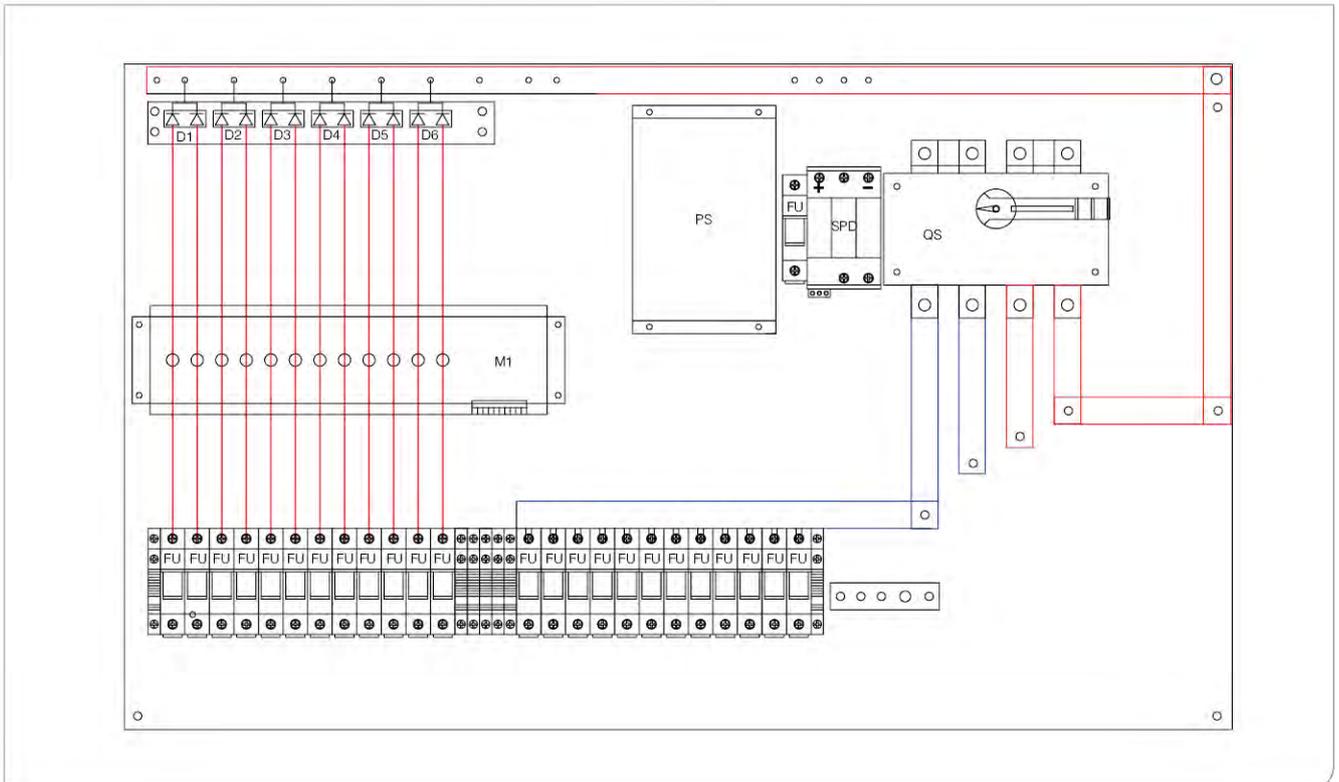
Name	SHLX-PV8/1
	Electric parameter
System maximum dc voltage	1000
Maximum input current for each string	15A
Maximum input strings	8
Maximum output switch current	125A
Number of inverter MPPT	N
Number of Output strings	1
	Lightning protection
Category of test	II grade protection
Nominal discharge current	20kA
Maximum discharge current	40kA
Voltage protection level	3.8kV
Maximum continuous operating voltage U _c	1050V
Poles	3P
Structure characteristic	Plug-push module
	System
Protection grade	IP65
Output switch	DC isolation switch(standard)/DC circuit breaker(optional)
SMC4 Waterproof Connectors	Standard
PV dc fuse	Standard
PV surge protector	Standard
Monitoring module	Optional
Preventing diode	Optional
Box material	Metal
Installation method	Wall mounting type
Operating Temperature	-25°C ~ +55°C
Elevation of temperature	2km
Permissible relative humidity	0~95% , no condensation

SCHEMATIC DIAGRAM



SHLX-PV12/1 DC COMBINER BOX

- High reliability
 - With DC FUSE
 - With DC Surge Protection Device
 - With DC circuit breaker or DC load isolation switch.
- Strong adaptability
 - IP65 design, waterproof, anti dust and anti ultraviolet.
 - Strict test for high and low temperature, used widely.
 - The simple installation, the simplified system wiring, the convenient wiring .
 - The box body is made of cold rolled steel and other metal materials.
- Flexible configuration
 - Used for single crystal silicon solar modules, polycrystalline silicon solar modules, thin film solar modules. Current rating of the photovoltaic fuse, circuit breaker, load isolation switch is modified.



DESCRIPTION

SHLX-PV12/1 PV combiner box bus synthetic DC input of 12 PV components to 1 output. Each channel is with a fuse. Output side is equipped with lightning protection and circuit breaker. It greatly simplify input wiring of DC power distribution cabinet and inverter. Realize lightning protection, short circuit protection and grounding protection. PV combiner box divided into two types: intelligent box and non-intelligent box. Intelligent PV combiner box is equipped with monitoring unit, then detect input current of each string, detect inside temperature, detect lightning protection status, detect circuit breaker status and summarize output voltage and so on.

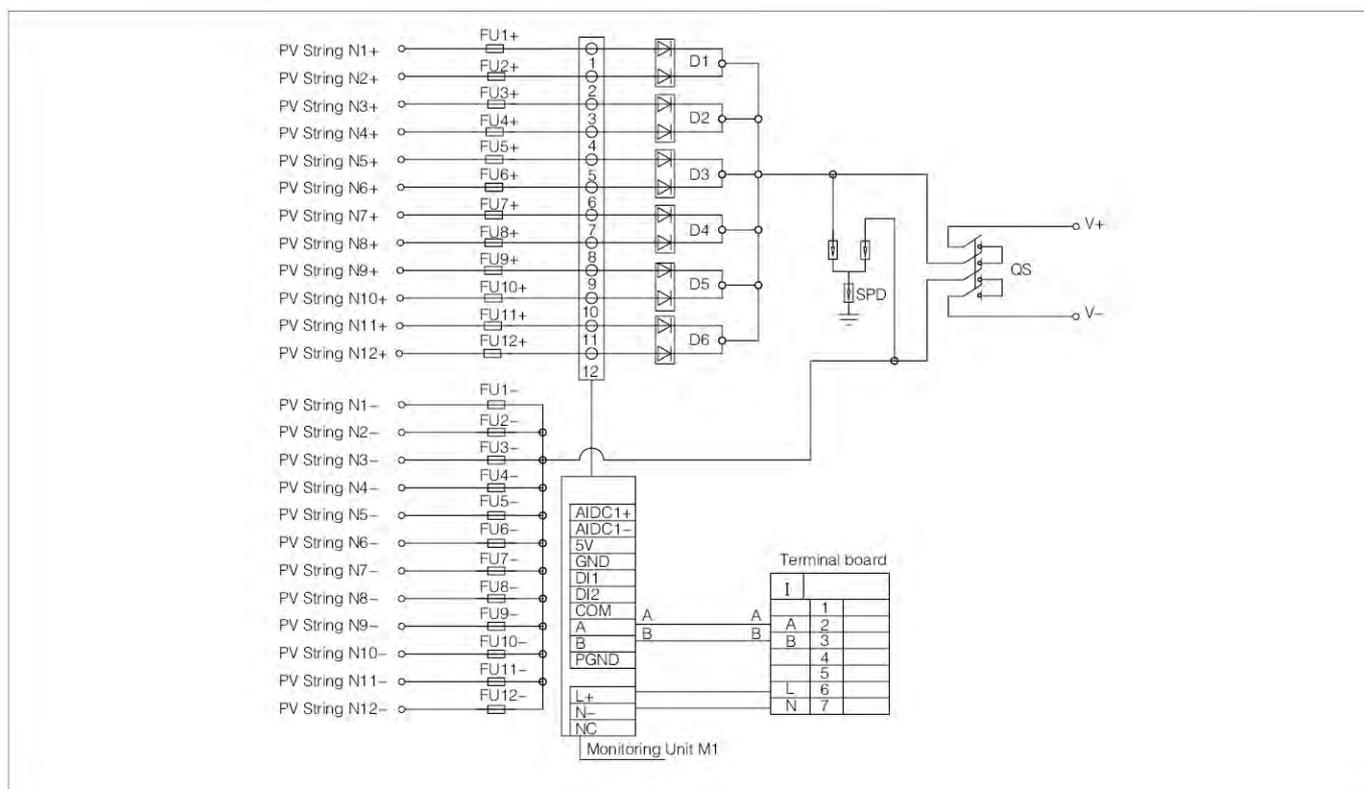
Design and configuration strictly accordance with the "Technical specification for photovoltaic junction equipment " CGC/GF 037:2014. Provide users with a safe, brief, beautiful and applicable photovoltaic system products.

The product adopts outdoor wall mounted type, which adapt to the harsh environment. In addition to the core components, the other can be customized by user requirements.

TECHNICAL PARAMETERS

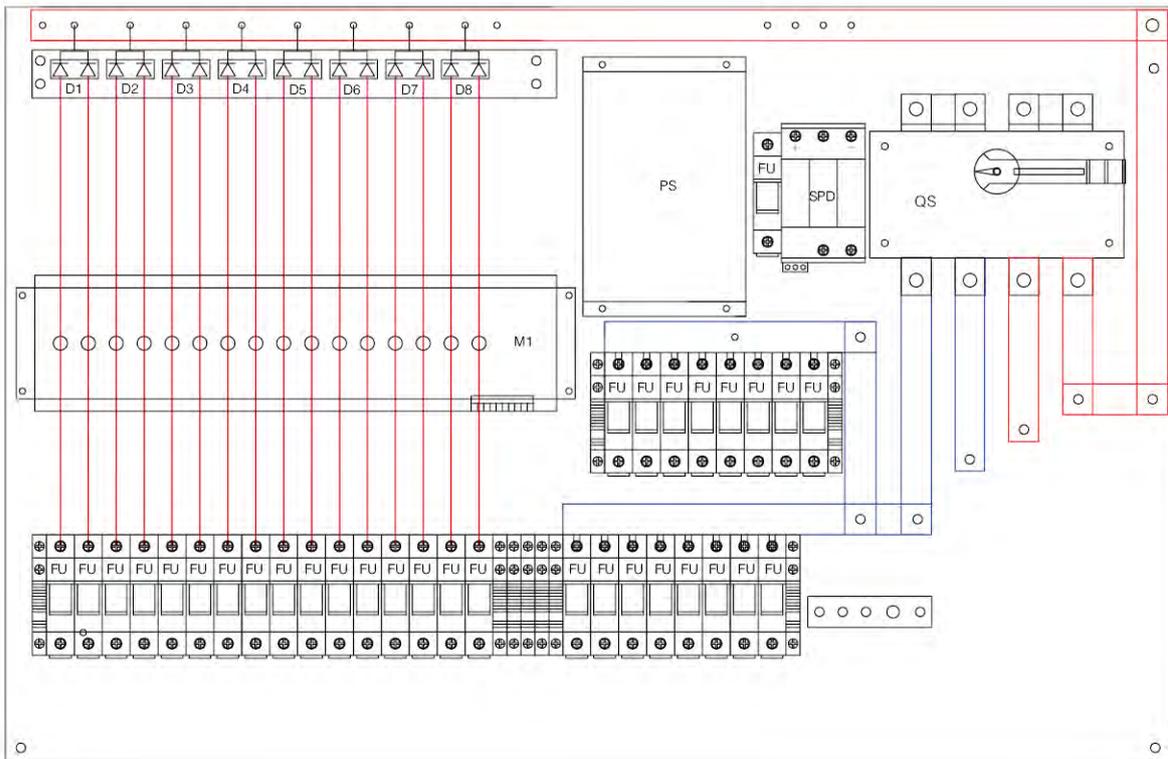
Name	SHLX-PV12/1
	Electric parameter
System maximum dc voltage	1000
Maximum input current for each string	15A
Maximum input strings	12
Maximum output switch current	160A
Number of inverter MPPT	N
Number of Output strings	1
	Lightning protection
Category of test	II grade protection
Nominal discharge current	20kA
Maximum discharge current	40kA
Voltage protection level	3.8kV
Maximum continuous operating voltage U _c	1050V
Poles	3P
Structure characteristic	Plug-push module
	System
Protection grade	IP65
Output switch	DC isolation switch(standard)/DC circuit breaker(optional)
SMC4 Waterproof Connectors	Standard
PV dc fuse	Standard
PV surge protector	Standard
Monitoring module	Optional
Preventing diode	Optional
Box material	Metal
Installation method	Wall mounting type
Operating Temperature	-25°C ~ +55°C
Elevation of temperature	2km
Permissible relative humidity	0~95% , no condensation

SCHEMATIC DIAGRAM



SHLX-PV16/1 DC COMBINER BOX

- High reliability
 - With DC FUSE
 - With DC Surge Protection Device
 - With DC circuit breaker or DC load isolation switch.
- Strong adaptability
 - IP65 design, waterproof, anti dust and anti ultraviolet.
 - Strict test for high and low temperature, used widely.
 - The simple installation, the simplified system wiring, the convenient wiring .
 - The box body is made of cold rolled steel and other metal materials.
- Flexible configuration
 - Used for single crystal silicon solar modules, polycrystalline silicon solar modules, thin film solar modules. Current rating of the photovoltaic fuse, circuit breaker, load isolation switch is modified.



DESCRIPTION

SHLX-PV16/1 PV combiner box bus synthetic DC input of 16 PV components to 1 output. Each channel is with a fuse. Output side is equipped with lightning protection and circuit breaker. It greatly simplify input wiring of DC power distribution cabinet and inverter. Realize lightning protection, short circuit protection and grounding protection. PV combiner box divided into two types: intelligent box and non-intelligent box. Intelligent PV combiner box is equipped with monitoring unit, then detect input current of each string, detect inside temperature, detect lightning protection status, detect circuit breaker status and summarize output voltage and so on.

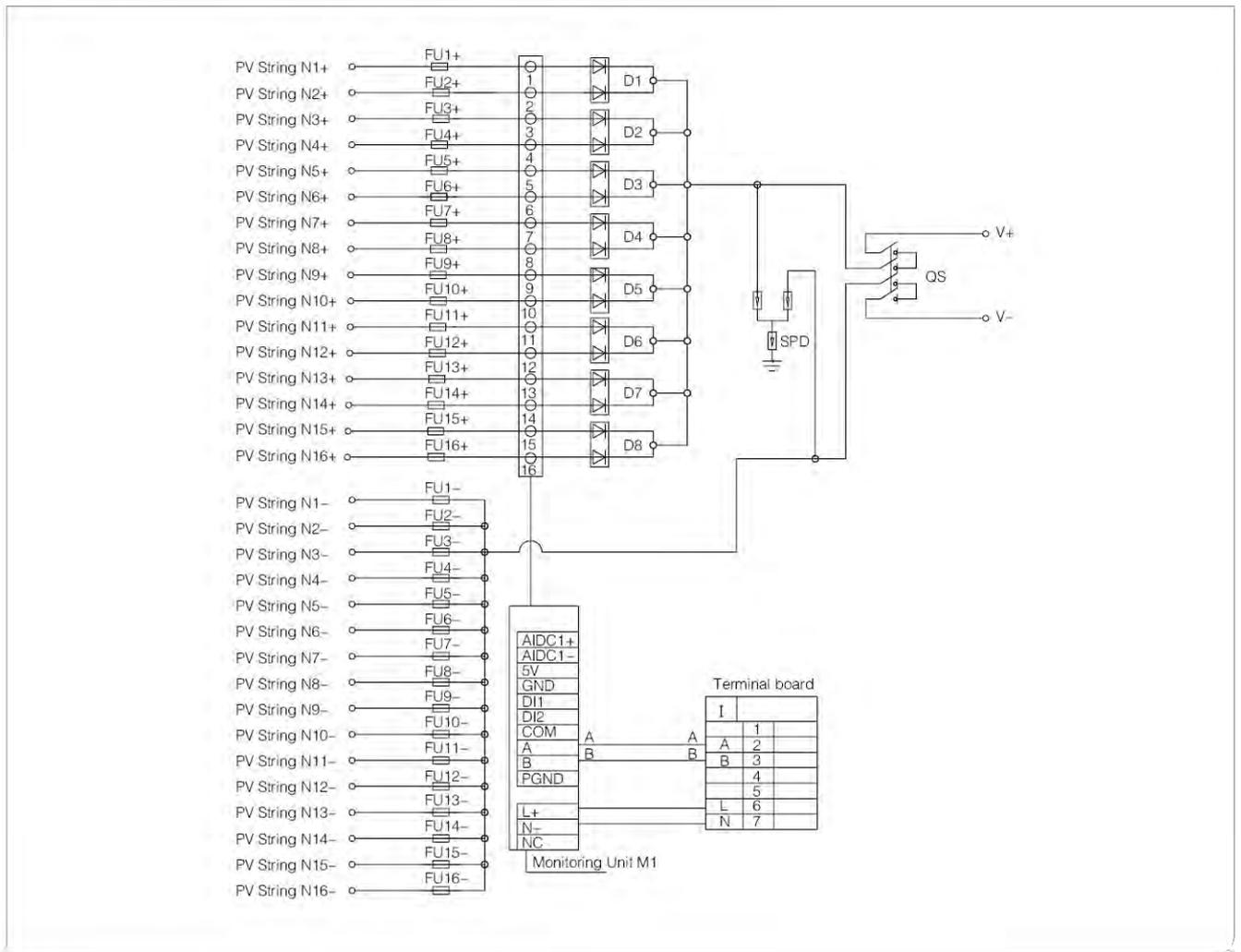
Design and configuration strictly accordance with the "Technical specification for photovoltaic junction equipment " CGC/GF 037:2014. Provide users with a safe, brief, beautiful and applicable photovoltaic system products.

The product adopts outdoor wall mounted type, which adapt to the harsh environment. In addition to the core components, the other can be customized by user requirements.

TECHNICAL PARAMETERS

Name	SHLX-PV16/1
Electric parameter	
System maximum dc voltage	1000
Maximum input current for each string	15A
Maximum input strings	16
Maximum output switch current	200A
Number of inverter MPPT	N
Number of Output strings	1
Lightning protection	
Category of test	II grade protection
Nominal discharge current	20kA
Maximum discharge current	40kA
Voltage protection level	3.8kV
Maximum continuous operating voltage Uc	1050V
Poles	3P
Structure characteristic	Plug-push module
System	
Protection grade	IP65
Output switch	DC isolation switch(standard)/DC circuit breaker(optional)
SMC4 Waterproof Connectors	Standard
PV dc fuse	Standard
PV surge protector	Standard
Monitoring module	Optional
Preventing diode	Optional
Box material	Metal
Installation method	Wall mounting type
Operating Temperature	-25℃~ +55℃
Elevation of temperature	2km
Permissible relative humidity	0~95% , no condensation

SCHEMATIC DIAGRAM

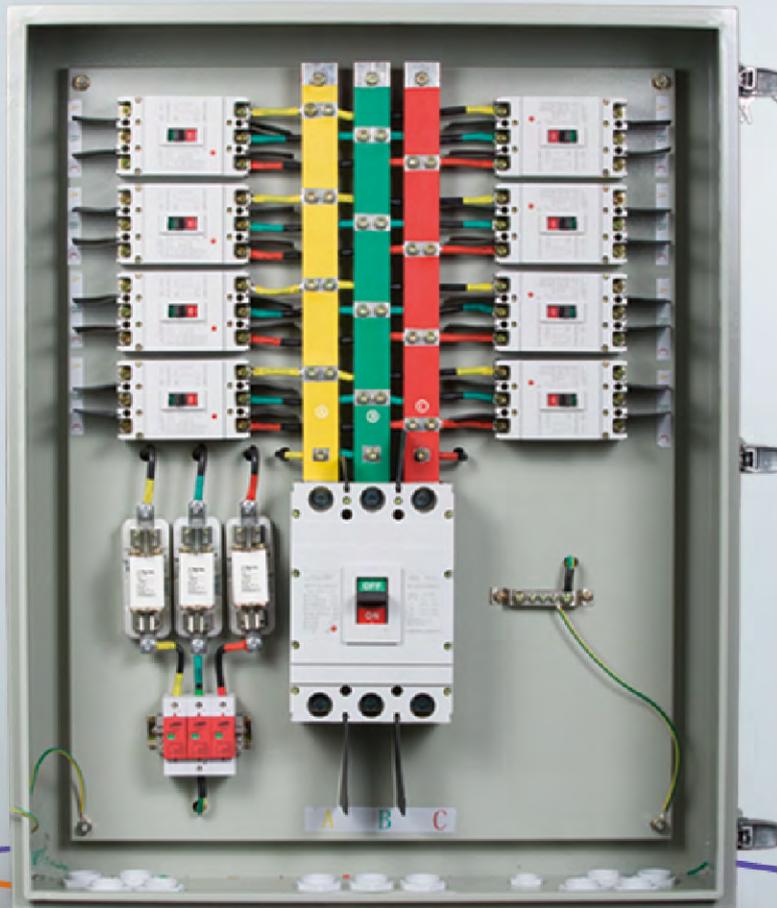




AC COMBINER BOX TYPE



- ① Suntree electric
- ② Product model (combiner box)
- ③ PV AC
- ④ Input channel (4/6/8)
- ⑤ Output channel
- ⑥ AC400V/AC480V/AC690V



SHLX GRID-CONNECTED BOX

- Protection rating IP65
- With short-circuit, over-voltage, under-voltage protection
- Automatically closing
- Surge protection
- Disconnect obviously, repair directly in box when repair power issue
- With metering installation location to visualize power



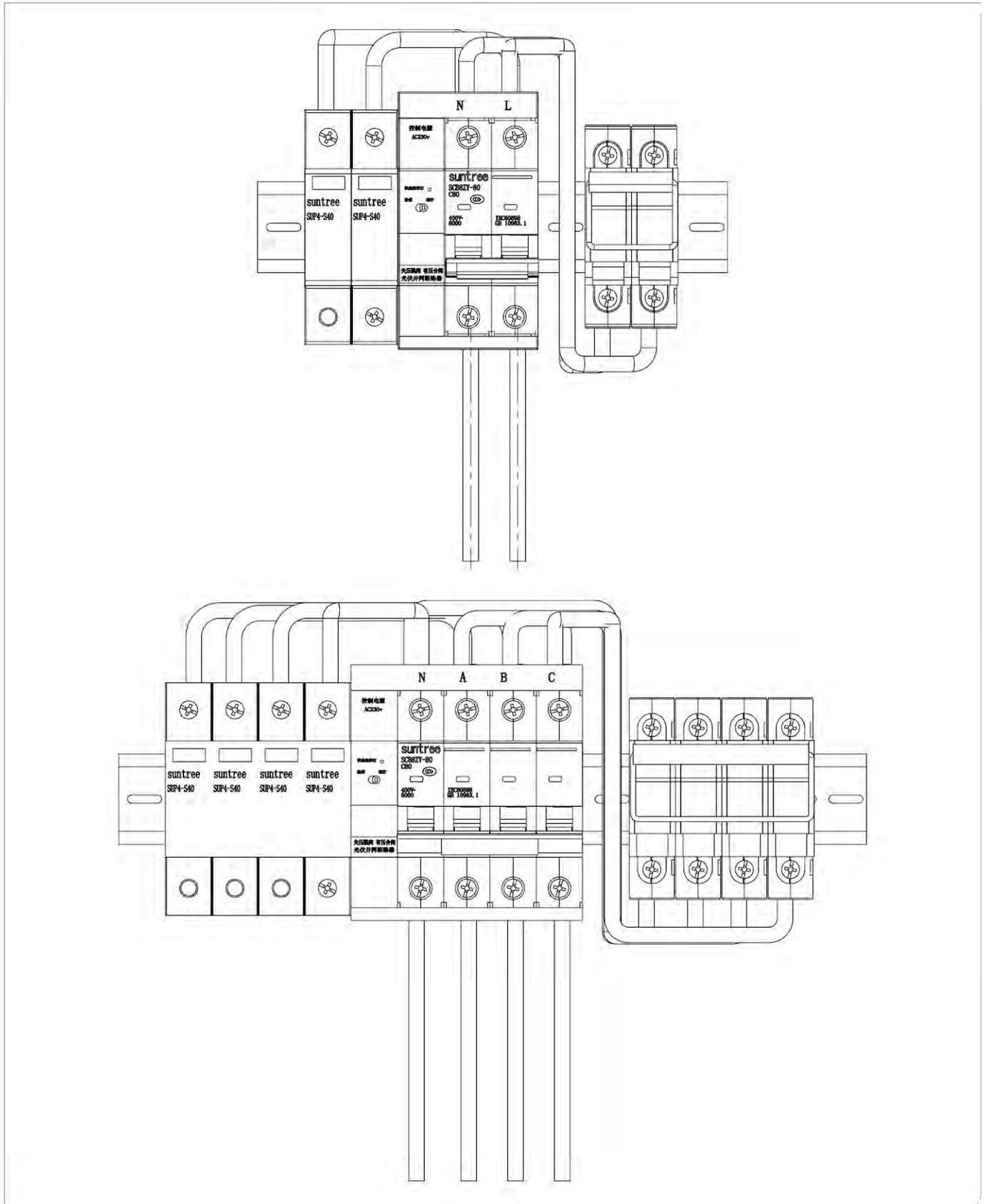
TECHNICAL PARAMETERS

Model	SHLX-3000	SHLX-5000	SHLX-10000
Max input voltage	275	275	460
Input current per string (a)	15	25	20
Rated working voltage(un)	220	220	380
Overvoltage protection level(up)	<1.8KV	<1.8KV	<1.8KV
Nominal discharge current (in)	20KA	20KA	20KA
Max discharge current (imax)	40KA	40KA	40KA
Response time	25ns	25ns	25ns
Operational environment	Working temperature : -40°C~+85°C , humidity 95% , No condensation , no corrosive gas		
Altitude	≤2500m		
Surge protection device	SUP1-40 2P 20-40KA	SUP1-40 2P 20-40KA	SUP1-40 4P 20-40KA
Box material	Engineering plastics		
Box protection grade	IP65		
Cable gland protection grade	IP66		
Size (w×h×d)	219×200	219×200	381×230

DESCRIPTION

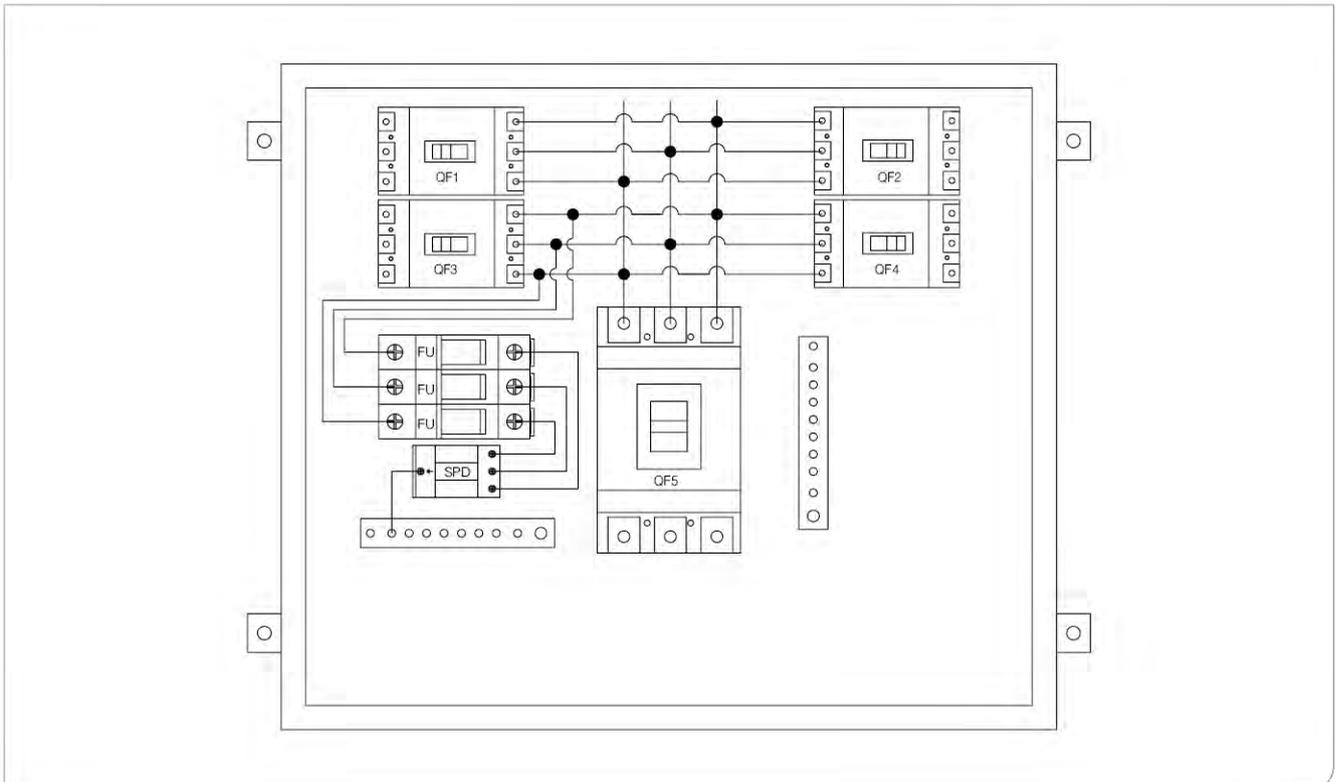
Distributed PV grid distribution box main for distributed PV power system. Connect and protect inverter and grid. Integrate switch components and meters. With cold rolled plate box(waterproof IP65). Inside installed with grid dedicated switch. Function like: over voltage, under voltage, delay action, automatically closing after voltage recovery. Inside surge protection device can protect against lightning. Knife switch disconnect obviously when in maintenance. Integrated meter PV distribution box make easy installation functional and satisfy the power requirements.

SCHEMATIC DIAGRAM



SHLX-AC4/1 AC COMBINER BOX

- High reliability
 - With AC Surge Protection Device
 - With DC circuit breaker, rated voltage AC690V
- Strong adaptability
 - IP65 design, waterproof, anti dust and anti ultraviolet.
 - Strict test for high and low temperature, used widely.
 - The simple installation, the simplified system wiring, the convenient wiring .
 - The box body is made of cold rolled steel and other metal materials.
- Flexible configuration
 - Used for AC output of 1-50kw inverter. Current rating of the photovoltaic fuse, circuit breaker is modified.



DESCRIPTION

SHLX-AC4/1 AC PV combiner box is applicable to the PV group on power system. It is an important part to undertake series inverter and AC power distribution cabinet or a step-up transformer and access up to four sets of photovoltaic group on inverter. Into line with the input of circuit breaker and output line with circuit breaker or the load isolating switch. Bus bar with two levels of lightning protection. Highest rated system voltage is AC690V. IP65 Protection class same as inverter. Installed outdoor. With waterproof, dustproof, anti UV, anti salt spray corrosion etc. function.

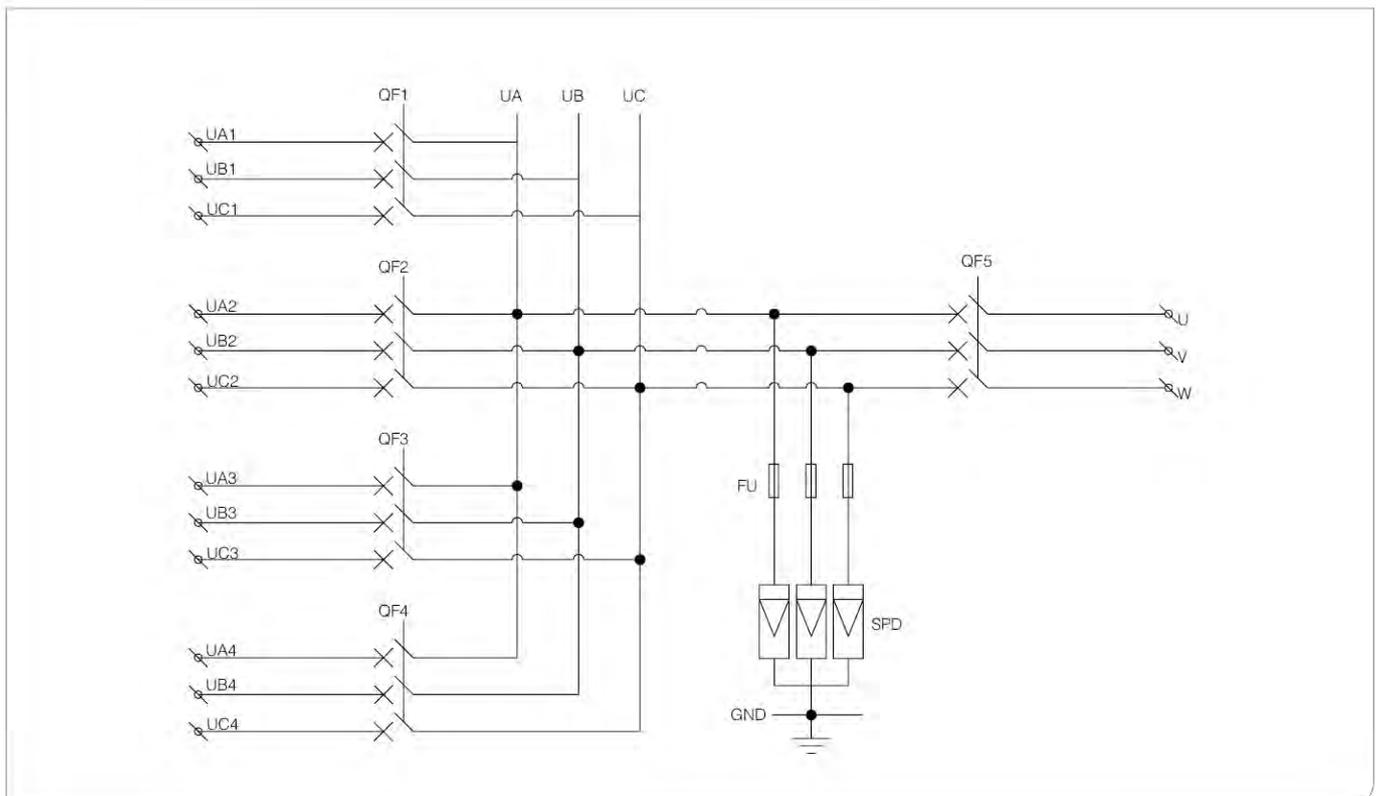
The combiner box greatly simplifies the connection between series inverter and AC power distribution cabinet or boost transformer. Simple and clear internal structure make reasonable wiring.

High reliability and simple maintenance. Outdoor wall mounted can adapt to the harsh environment. In addition to the material and size, it can be customized according to user requirements.

TECHNICAL PARAMETERS

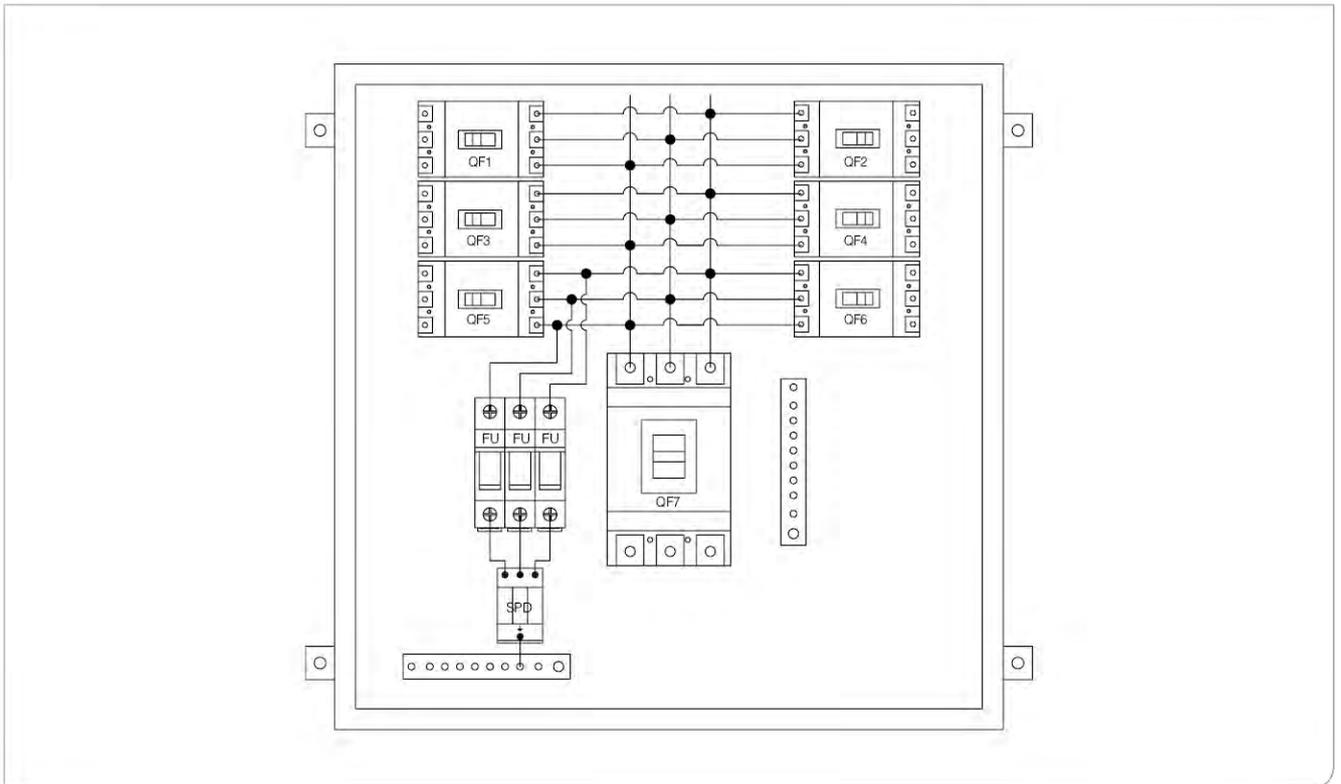
Product model	SHLX-AC4/1
Number of input strings	4
maximum input voltage	AC690
Input current for each string	0~100A
maximum input current	250A
Rated working voltage Un	480VAC
voltage protection level	≤3.2KV
Nominal discharge current(8/20us)	20KA(customizable)
Maximum discharge current I _{max} (8/20us)	40KA(customizable)
Response time	<25ns
Temperature and humidity	Working temperature : - 40~ + 85.humidity 95% , no condensation , No corrosive gas
Elevation	≤4km
Input and output switch	Circuit breaker
surge protector	Standard
Box material	Galvanized steel/stainless steel/cold rolled steel sheet/plastics
Enclosure protection grade	IP65
Cable grade protection grade	IP65
Volume (Width×High×Depth)	800mm×600mm×200mm

SCHEMATIC DIAGRAM



SHLX-AC6/1 AC COMBINER BOX

- High reliability
 - With AC Surge Protection Device
 - With DC circuit breaker, rated voltage AC690V
- Strong adaptability
 - IP65 design, waterproof, anti dust and anti ultraviolet.
 - Strict test for high and low temperature, used widely.
 - The simple installation, the simplified system wiring, the convenient wiring .
 - The box body is made of cold rolled steel and other metal materials.
- Flexible configuration
 - Used for AC output of 1-50kw inverter. Current rating of the photovoltaic fuse, circuit breaker is modified.



DESCRIPTION

SHLX-AC6/1 AC PV combiner box is applicable to the PV group on power system. It is an important part to undertake series inverter and AC power distribution cabinet or a step-up transformer and access up to four sets of photovoltaic group on inverter. Into line with the input of circuit breaker and output line with circuit breaker or the load isolating switch. Bus bar with two levels of lightning protection. Highest rated system voltage is AC690V. IP65 Protection class same as inverter. Installed outdoor. With waterproof, dustproof, anti UV, anti salt spray corrosion etc. function.

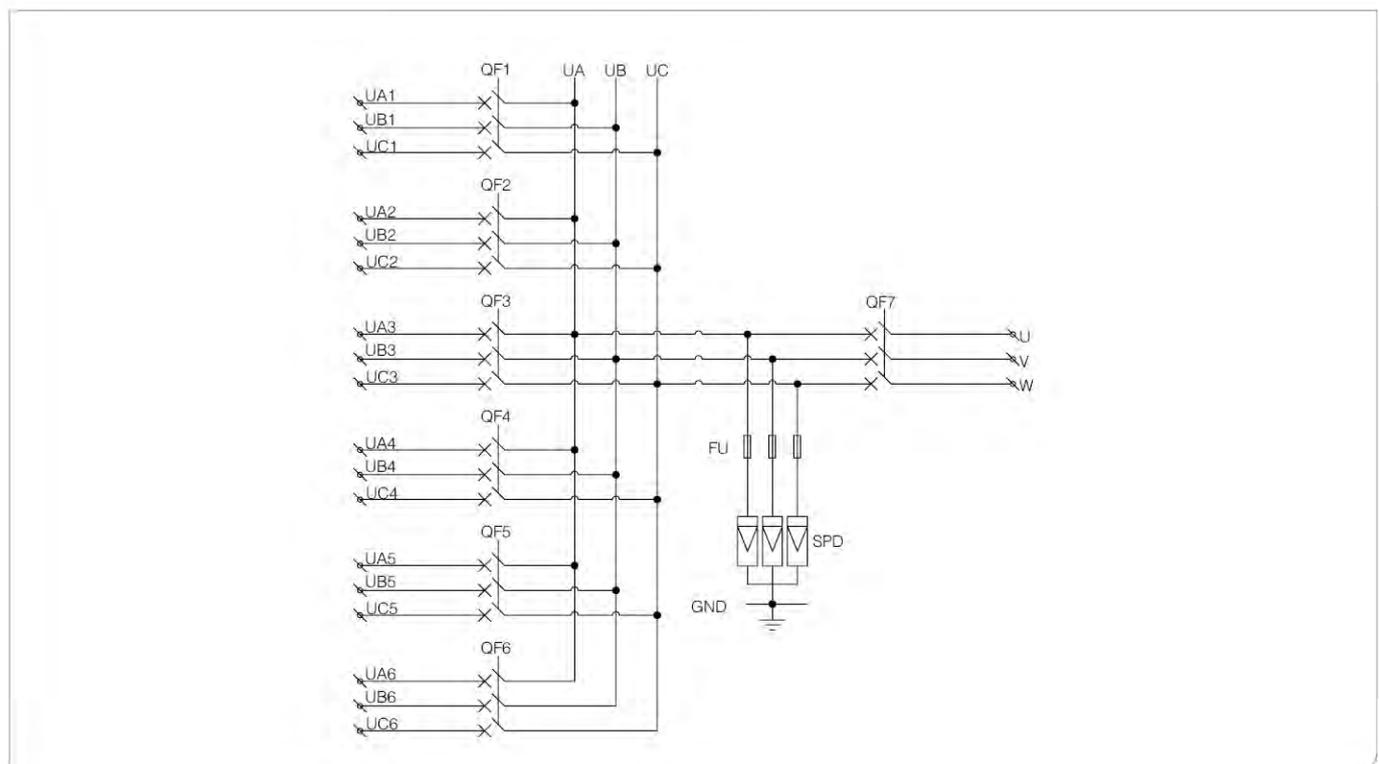
The combiner box greatly simplifies the connection between series inverter and AC power distribution cabinet or boost transformer. Simple and clear internal structure make reasonable wiring.

High reliability and simple maintenance. Outdoor wall mounted can adapt to the harsh environment. In addition to the material and size, it can be customized according to user requirements.

TECHNICAL PARAMETERS

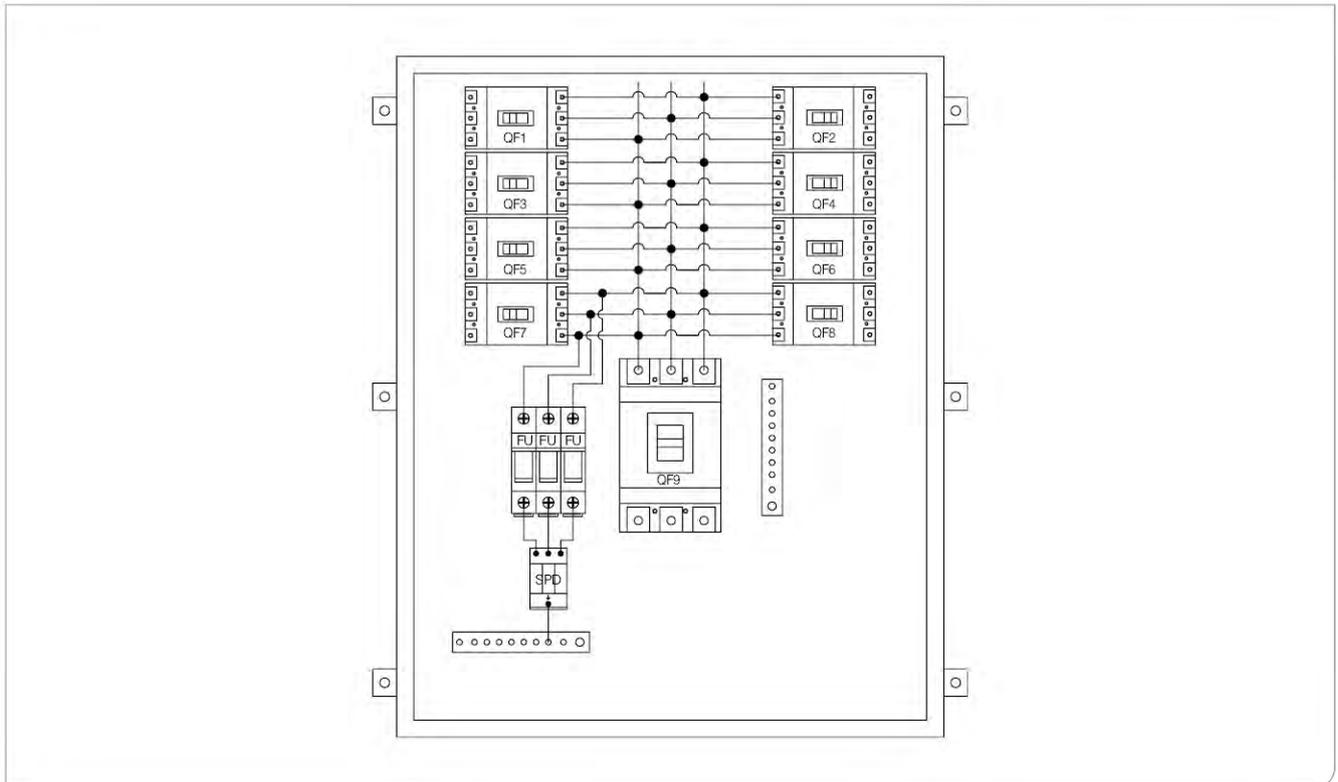
Product model	SHLX-AC6/1
Number of input strings	6
maximum input voltage	AC690
Input current for each string	0~100A
maximum input current	400A
Rated working voltage Un	480VAC
voltage protection level	≤3.2KV
Nominal discharge current(8/20us)	20KA(customizable)
Maximum discharge current Imax(8/20us)	40KA(customizable)
Response time	<25ns
Temperature and humidity	Working temperature : - 40~ + 85.humidity 95% , no condensation , No corrosive gas
Elevation	≤4km
Input and output switch	Circuit breaker
surge protector	Standard
Box material	Galvanized steel/stainless steel/cold rolled steel sheet/plastics
Enclosure protection grade	IP65
Cable grade protection grade	IP65
Volume (Width×High×Depth)	800mm×800mm×200mm

SCHEMATIC DIAGRAM



SHLX-AC8/1 AC COMBINER BOX

- High reliability
 - With AC Surge Protection Device
 - With DC circuit breaker, rated voltage AC690V
- Strong adaptability
 - IP65 design, waterproof, anti dust and anti ultraviolet.
 - Strict test for high and low temperature, used widely.
 - The simple installation, the simplified system wiring, the convenient wiring .
 - The box body is made of cold rolled steel and other metal materials.
- Flexible configuration
 - Used for AC output of 1-50kw inverter. Current rating of the photovoltaic fuse, circuit breaker is modified.



DESCRIPTION

SHLX-AC8/1 AC PV combiner box is applicable to the PV group on power system. It is an important part to undertake series inverter and AC power distribution cabinet or a step-up transformer and access up to four sets of photovoltaic group on inverter. Into line with the input of circuit breaker and output line with circuit breaker or the load isolating switch. Bus bar with two levels of lightning protection. Highest rated system voltage is AC690V. IP65 Protection class same as inverter. Installed outdoor. With waterproof, dustproof, anti UV, anti salt spray corrosion etc. function.

The combiner box greatly simplifies the connection between series inverter and AC power distribution cabinet or boost transformer. Simple and clear internal structure make reasonable wiring.

High reliability and simple maintenance. Outdoor wall mounted can adapt to the harsh environment. In addition to the material and size, it can be customized according to user requirements.

TECHNICAL PARAMETERS

Product model	SHLX-AC8/1
Number of input strings	8
maximum input voltage	AC690
Input current for each string	0~100A
maximum input current	630A
Rated working voltage Un	480VAC
voltage protection level	≤3.2KV
Nominal discharge current(8/20us)	20KA(customizable)
Maximum discharge current I _{max} (8/20us)	40KA(customizable)
Response time	<25ns
Temperature and humidity	Working temperature : - 40~ + 85.humidity 95% , no condensation , No corrosive gas
Elevation	≤4km
Input and output switch	Circuit breaker
surge protector	Standard
Box material	Galvanized steel/stainless steel/cold rolled steel sheet/plastics
Enclosure protection grade	IP65
Cable grade protection grade	IP66
Volume (Width×High×Depth)	800mm×1000mm×200mm

SCHEMATIC DIAGRAM

