

**CONTACT US NOW**

---

**DERLICN**

# **PRODUCT CATALOGUE**

**SOLAR  
COMBINER BOX**

**WENZHOU DERLICN ELECTRIC CO., LTD.**

ADDRESS: Liushi Town, Yueqing City, Wenzhou City, Zhejiang Province, China

FAX: 0577-62767821

MOBILE: +86 150 5897 7893 / +86 189 6887 3215

EMAIL: [info@derlicn.com](mailto:info@derlicn.com)

WEBSITE: [www.derlicn.com](http://www.derlicn.com)



TRUSTWORTHY  
QUALITY



STANDARDIZED  
PRODUCTION



LOW POWER  
CONSUMPTION



GREEN ENERGY



### FLEXIBLE CONFIGURATION

With DC fuse. With DC surge protective device. With DC circuit breakers or DC load disconnect switch. Other components are optional, such as monitoring modules and anti-reverse diodes.

### HIGH RELIABILITY

IP65 design, waterproof, dust-proof, UV protection. Strict high and low temperature testing for a wide range of applications.

### CONVENIENT INSTALLATION

Simple installation, simple system wiring, easy wiring. Enclosure is made of plastic & ABS.

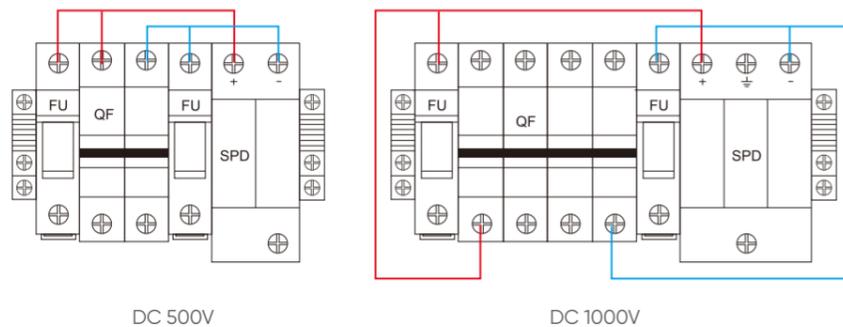
### PRODUCT DESCRIPTION

Strictly in accordance with the Technical Specification for Photovoltaic Junction Equipment CGC/GF037:2014 for design and configuration. Provide users with safe, simple, beautiful and applicable PV system products.

It is installed between the solar panels and the solar inverter, designed and customized with the most reliable DC components to provide maximum protection.

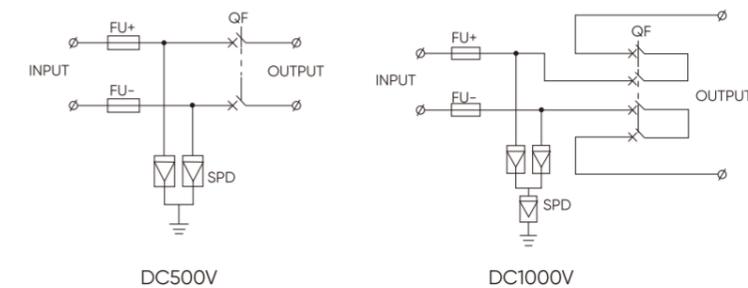
DLCB/1-1 series PV DC converter box is suitable for inverter (maximum input voltage DC500V/DC1000V, 1 PV input channel, 1 output channel, single MPPT inverter).

The enclosure is made of polyvinyl chloride engineering material, with flame retardant, temperature rise, impact resistance, UV resistance and other test functions.



Electrical Parameters		
Maximum System DC Voltage	500VDC	1000VDC
Maximum Input Current Per String	15A/20A/30A	
Maximum Input String	1	
Maximum Output Switching Current	16A/20A/32A	
Number of Inverter MPPTs	1	
Number of Output Strings	1	
Lightning Protection		
Test Category	II Grade Protection	
Nominal Discharge Current	20kA	
Maximum Discharge Current	40kA	
Voltage Protection Class	2.0kV	3.6kV
Maximum Continuous Operating Voltage Uc	500V	1050V
The Number of Poles	2P	3P
Structural Characteristics	Plug-push module	
System		
Protection Class	IP65	
Output Switch	DC Circuit Breakers(standard)/DC Isolation Switch(optional)	
MC4 Waterproof Connectors	Standard	
Photovoltaic DC Fuses	Standard	
Photovoltaic DC SPDs	Standard	
Monitoring Modules	Optional	
Anti-reverse Diode	Optional	
Enclosure Material	PVC+ABS	
Installation Method	Wall-mounted	
Working Temperatures	-25°C ~ +55°C	
Elevation of Temperature	2km	
Permissible Relative Humidity	0-95%, no Condensation	
Mechanical Parameter		
Width x High x Height	225*223*140mm	

### SCHEMATIC DIAGRAM





### FLEXIBLE CONFIGURATION

With DC fuse. With DC surge protective device. With DC circuit breakers or DC load disconnect switch. Other components are optional, such as monitoring modules and anti-reverse diodes.

### HIGH RELIABILITY

IP65 design, waterproof, dust-proof, UV protection. Strict high and low temperature testing for a wide range of applications.

### CONVENIENT INSTALLATION

Simple installation, simple system wiring, easy wiring. Enclosure is made of plastic & ABS.

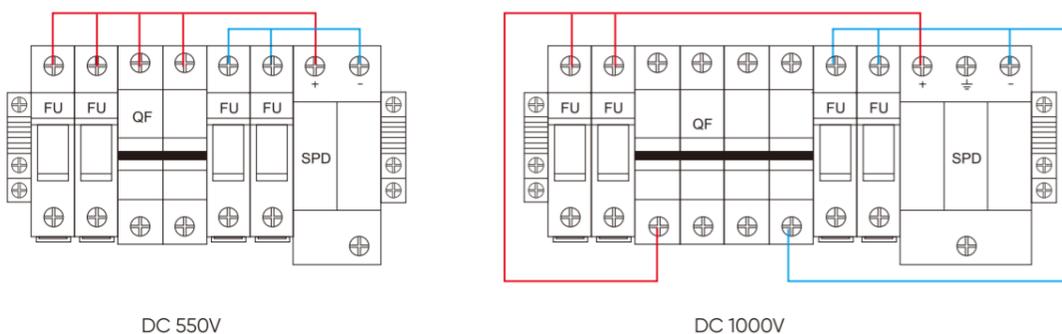
### PRODUCT DESCRIPTION

Strictly in accordance with the Technical Specification for Photovoltaic Junction Equipment CGC/GF037:2014 for design and configuration. Provide users with safe, simple, beautiful and applicable PV system products.

It is installed between the solar panels and the solar inverter, designed and customized with the most reliable DC components to provide maximum protection.

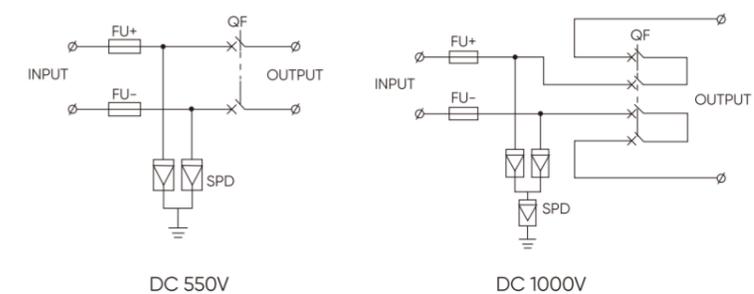
DLCB/2-1 series PV DC converter box is suitable for inverter (maximum input voltage DC500V/DC1000V, 2 PV input channel, 1 output channel, single MPPT inverter).

The enclosure is made of polyvinyl chloride engineering material, with flame retardant, temperature rise, impact resistance, UV resistance and other test functions.



Electrical Parameters		
Maximum System DC Voltage	500VDC	1000VDC
Maximum Input Current Per String	15A/20A/30A	
Maximum Input String	2	
Maximum Output Switching Current	16A/20A/32A	
Number of Inverter MPPTs	1	
Number of Output Strings	1	
Lightning Protection		
Test Category	II Grade Protection	
Nominal Discharge Current	20kA	
Maximum Discharge Current	40kA	
Voltage Protection Class	2.0kV	3.6kV
Maximum Continuous Operating Voltage Uc	500V	1050V
The Number of Poles	2P	3P
Structural Characteristics	Plug-push module	
System		
Protection Class	IP65	
Output Switch	DC Circuit Breakers(standard)/DC Isolation Switch(optional)	
MC4 Waterproof Connectors	Standard	
Photovoltaic DC Fuses	Standard	
Photovoltaic DC SPDs	Standard	
Monitoring Modules	Optional	
Anti-reverse Diode	Optional	
Enclosure Material	PVC+ABS	
Installation Method	Wall-mounted	
Working Temperatures	-25°C ~ +55°C	
Elevation of Temperature	2km	
Permissible Relative Humidity	0-95%, no Condensation	
Mechanical Parameter		
Width x High x Height	255*223*140mm	

### SCHEMATIC DIAGRAM





### FLEXIBLE CONFIGURATION

With DC fuse. With DC surge protective device. With DC circuit breakers or DC load disconnect switch. Other components are optional, such as monitoring modules and anti-reverse diodes.

### HIGH RELIABILITY

IP65 design, waterproof, dust-proof, UV protection. Strict high and low temperature testing for a wide range of applications.

### CONVENIENT INSTALLATION

Simple installation, simple system wiring, easy wiring. Enclosure is made of plastic & ABS.

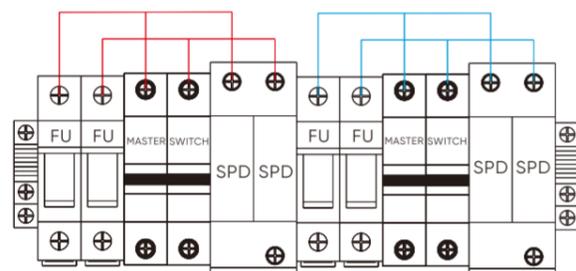
## PRODUCT DESCRIPTION

Strictly in accordance with the Technical Specification for Photovoltaic Junction Equipment CGC/GF037:2014 for design and configuration. Provide users with safe, simple, beautiful and applicable PV system products.

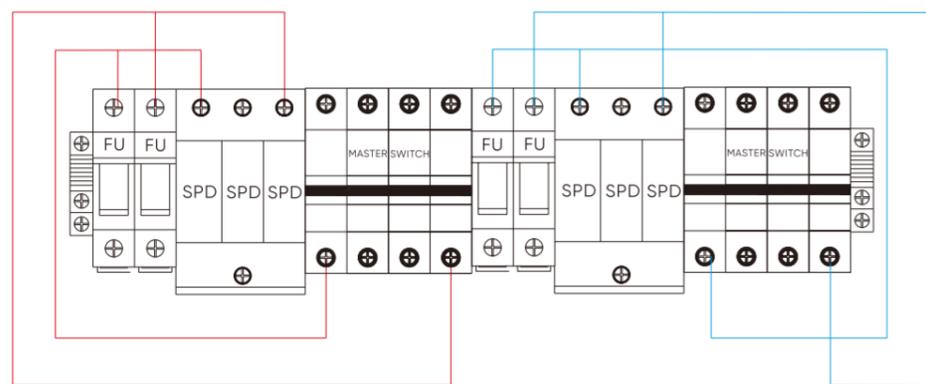
It is installed between the solar panels and the solar inverter, designed and customized with the most reliable DC components to provide maximum protection.

DLCB/2-2 series PV DC converter box is suitable for inverter (maximum input voltage DC500V/DC1000V, 2 PV input channel, 2 output channel, single MPPT inverter).

The enclosure is made of polyvinyl chloride engineering material, with flame retardant, temperature rise, impact resistance, UV resistance and other test functions.



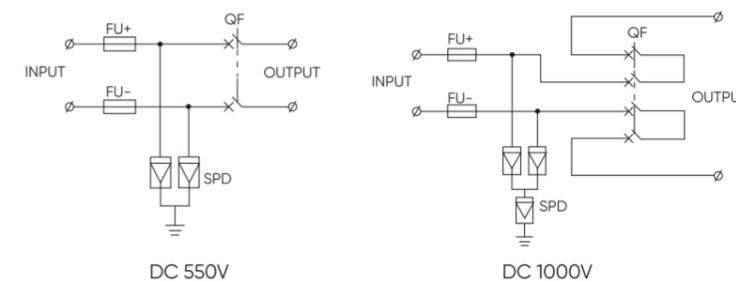
DC 500V



DC 1000V

Electrical Parameters		
Maximum System DC Voltage	500VDC	1000VDC
Maximum Input Current Per String	15A/20A/30A	
Maximum Input String	2	
Maximum Output Switching Current	16A/20A/32A	
Number of Inverter MPPTs	2	
Number of Output Strings	2	
Lightning Protection		
Test Category	II Grade Protection	
Nominal Discharge Current	20kA	
Maximum Discharge Current	40kA	
Voltage Protection Class	2.0kV	3.6kV
Maximum Continuous Operating Voltage U <sub>c</sub>	500V	1050V
The Number of Poles	2P	3P
Structural Characteristics	Plug-push module	
System		
Protection Class	IP65	
Output Switch	DC Circuit Breakers(standard)/DC Isolation Switch(optional)	
MC4 Waterproof Connectors	Standard	
Photovoltaic DC Fuses	Standard	
Photovoltaic DC SPDs	Standard	
Monitoring Modules	Optional	
Anti-reverse Diode	Optional	
Enclosure Material	PVC+ABS	
Installation Method	Wall-mounted	
Working Temperatures	-25°C ~ +55°C	
Elevation of Temperature	2km	
Permissible Relative Humidity	0-95%, no Condensation	
Mechanical Parameter		
Width x High x Height	305*305*107mm	

## SCHEMATIC DIAGRAM





**FLEXIBLE CONFIGURATION**

With DC fuse. With DC surge protective device. With DC circuit breakers or DC load disconnect switch. Other components are optional, such as monitoring modules and anti-reverse diodes.

**HIGH RELIABILITY**

IP65 design, waterproof, dust-proof, UV protection. Strict high and low temperature testing for a wide range of applications.

**CONVENIENT INSTALLATION**

Simple installation, simple system wiring, easy wiring. Enclosure is made of plastic & ABS.

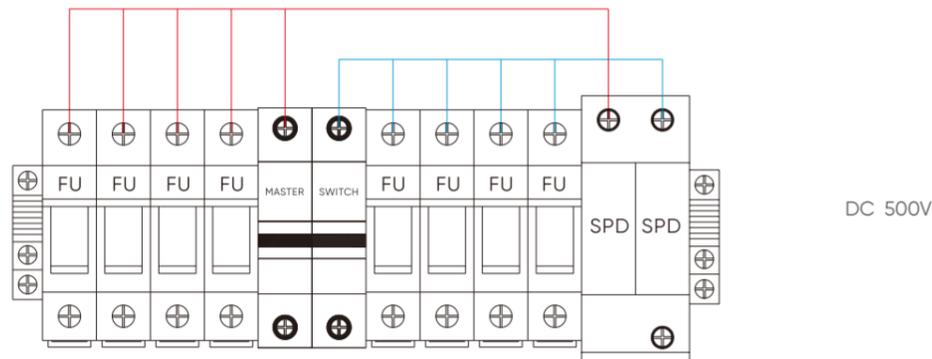
**PRODUCT DESCRIPTION**

Strictly in accordance with the Technical Specification for Photovoltaic Junction Equipment CGC/GF037:2014 for design and configuration. Provide users with safe, simple, beautiful and applicable PV system products.

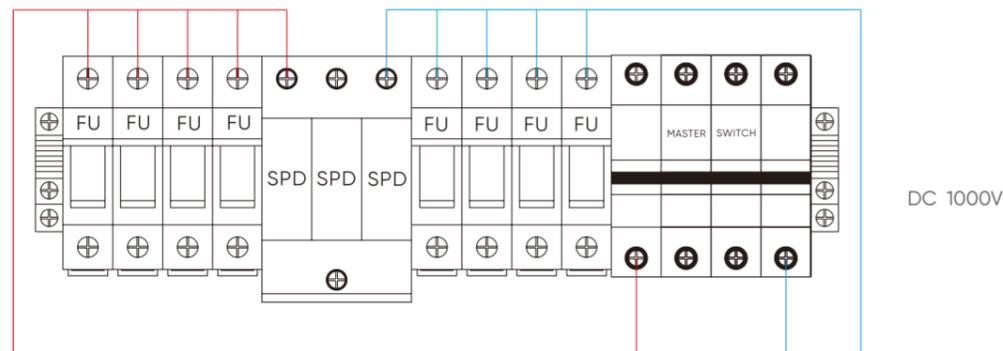
It is installed between the solar panels and the solar inverter, designed and customized with the most reliable DC components to provide maximum protection.

DLCB/4-1 series PV DC converter box is suitable for inverter (maximum input voltage DC500V/DC1000V, 4 PV input channel, 1 output channel, single MPPT inverter).

The enclosure is made of polyvinyl chloride engineering material, with flame retardant, temperature rise, impact resistance, UV resistance and other test functions.



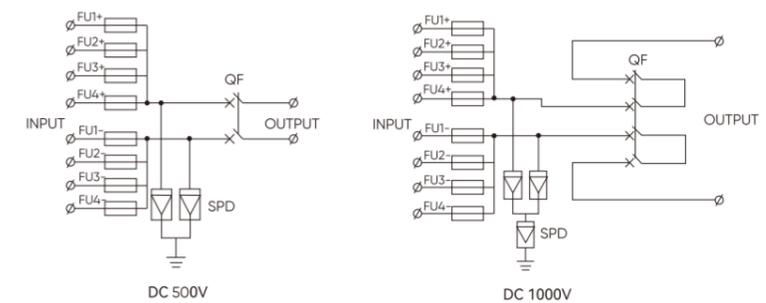
DC 500V



DC 1000V

Electrical Parameters		
Maximum System DC Voltage	500VDC	1000VDC
Maximum Input Current Per String	15A/20A	
Maximum Input String	4	
Maximum Output Switching Current	63A/80A/100A	
Number of Inverter MPPTs	1	
Number of Output Strings	1	
Lightning Protection		
Test Category	II Grade Protection	
Nominal Discharge Current	20kA	
Maximum Discharge Current	40kA	
Voltage Protection Class	2.0kV	3.6kV
Maximum Continuous Operating Voltage Uc	500V	1050V
The Number of Poles	2P	3P
Structural Characteristics	Plug-push module	
System		
Protection Class	IP65	
Output Switch	DC Circuit Breakers(standard)/DC Isolation Switch(optional)	
MC4 Waterproof Connectors	Standard	
Photovoltaic DC Fuses	Standard	
Photovoltaic DC SPDs	Standard	
Monitoring Modules	Optional	
Anti-reverse Diode	Optional	
Enclosure Material	PVC+ABS	
Installation Method	Wall-mounted	
Working Temperatures	-25°C ~ +55°C	
Elevation of Temperature	2km	
Permissible Relative Humidity	0-95%, no Condensation	
Mechanical Parameter		
Width x High x Height	305*305*107mm	

**SCHEMATIC DIAGRAM**





**FLEXIBLE CONFIGURATION**

With DC fuse. With DC surge protective device. With DC circuit breakers or DC load disconnect switch. Other components are optional, such as monitoring modules and anti-reverse diodes.

**HIGH RELIABILITY**

IP66 design, waterproof, dust-proof, UV protection. Strict high and low temperature testing for a wide range of applications.

**CONVENIENT INSTALLATION**

Simple installation, simple system wiring, easy wiring. Enclosure is made of metal materials.

**PRODUCT DESCRIPTION**

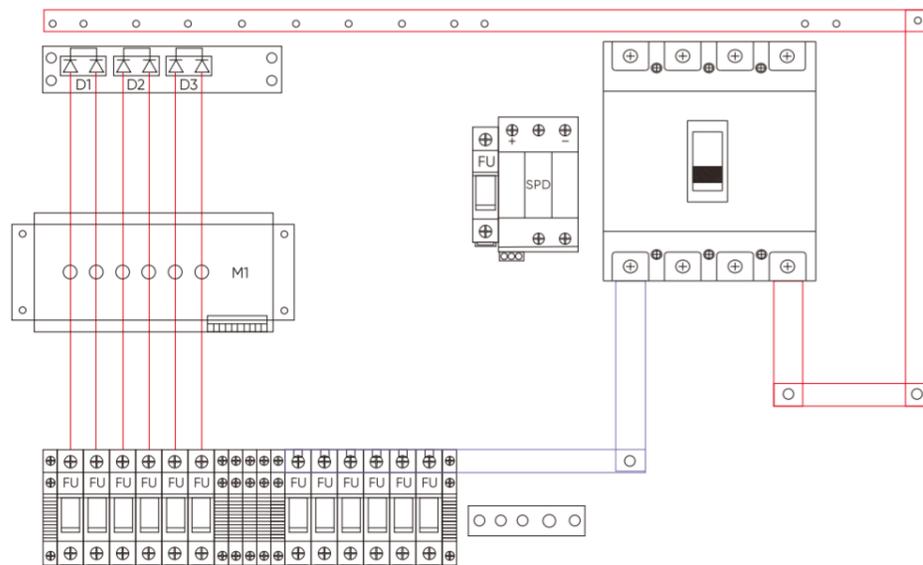
The DLCBP/6-1 PV Combiner Box combines the DC inputs of 6 PV modules into 1 output. Each channel is equipped with fuses, and the output is equipped with surge protectors and circuit breakers.

It greatly simplifies the input wiring of DC power distribution cabinets and inverters, and realizes lightning protection, short circuit protection and grounding protection.

There are two types of PV convergence boxes: intelligent and non-intelligent. Intelligent PV converter boxes are equipped with monitoring units that can detect the output current, internal temperature, lightning protection status, circuit breaker status and summarize the output voltage and other information of each string column.

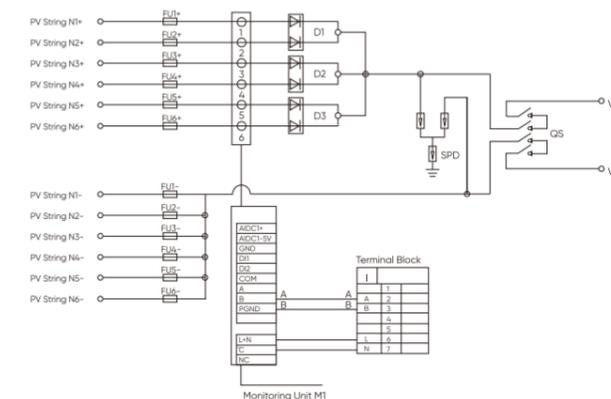
The design and configuration are in strict accordance with the Technical Specification for Photovoltaic Wiring Devices CGC/GF037:2014. Provide users with safe, simple, beautiful and applicable PV system products.

Adopting outdoor wall-mounted design, it can be applied to harsh environments. Except for the core components, all other parts can be customized according to user requirements.



Electrical Parameters		
Maximum System DC Voltage	1000VDC	1500VDC
Maximum Input Current Per String		15A
Maximum Input String		6
Maximum Output Switching Current		100A
Number of Inverter MPPTs		N
Number of Output Strings		1
Lightning Protection		
Test Category		II Grade Protection
Nominal Discharge Current		20kA
Maximum Discharge Current		40kA
Voltage Protection Class	3.6kV	5.3kV
Maximum Continuous Operating Voltage U <sub>c</sub>	1050V	1500V
The Number of Poles		3P
Structural Characteristics		Plug-push module
System		
Protection Class		IP66
Output Switch		DC Circuit Breakers(standard)/DC Isolation Switch(optional)
MC4 Waterproof Connectors		Standard
Photovoltaic DC Fuses		Standard
Photovoltaic DC SPDs		Standard
Monitoring Modules		Optional
Anti-reverse Diode		Optional
Enclosure Material		Metal
Installation Method		Wall-mounted
Working Temperatures		-25°C ~ +55°C
Elevation of Temperature		2km
Permissible Relative Humidity		0-95%, no Condensation
Mechanical Parameter		
Width x High x Height		500*400*180mm

**SCHEMATIC DIAGRAM**





### FLEXIBLE CONFIGURATION

With DC fuse. With DC surge protective device. With DC circuit breakers or DC load disconnect switch. Other components are optional, such as monitoring modules and anti-reverse diodes.

### HIGH RELIABILITY

IP66 design, waterproof, dust-proof, UV protection. Strict high and low temperature testing for a wide range of applications.

### CONVENIENT INSTALLATION

Simple installation, simple system wiring, easy wiring. Enclosure is made of metal materials.

## PRODUCT DESCRIPTION

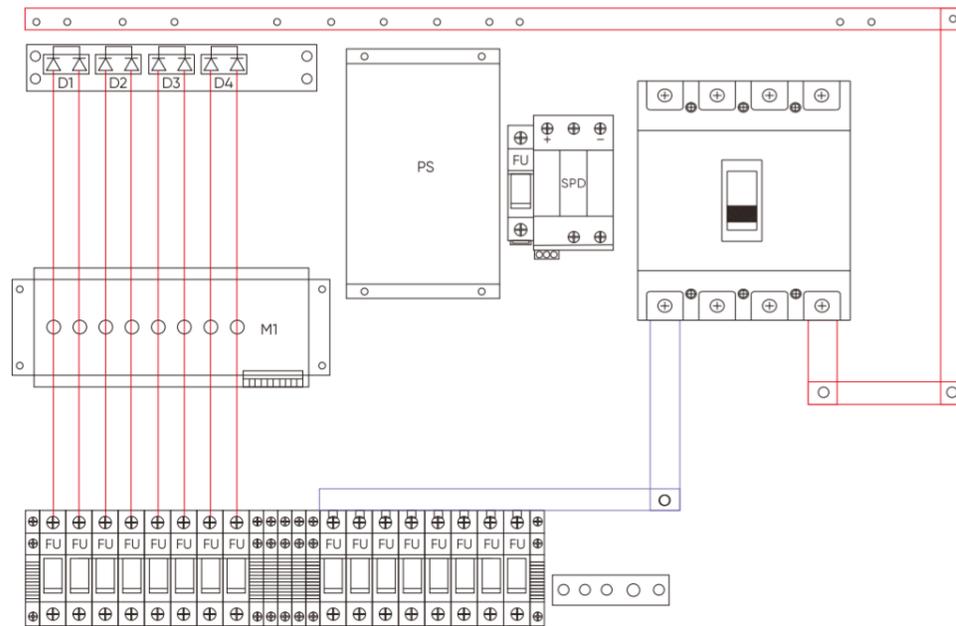
The DLCBP/8-1 PV Combiner Box combines the DC inputs of 8 PV modules into 1 output. Each channel is equipped with fuses, and the output is equipped with surge protectors and circuit breakers.

It greatly simplifies the input wiring of DC power distribution cabinets and inverters, and realizes lightning protection, short circuit protection and grounding protection.

There are two types of PV convergence boxes: intelligent and non-intelligent. Intelligent PV converter boxes are equipped with monitoring units that can detect the output current, internal temperature, lightning protection status, circuit breaker status and summarize the output voltage and other information of each string column.

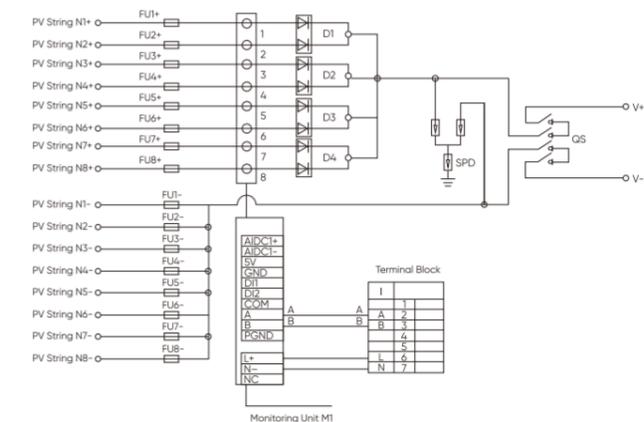
The design and configuration are in strict accordance with the Technical Specification for Photovoltaic Wiring Devices CGC/GF037:2014. Provide users with safe, simple, beautiful and applicable PV system products.

Adopting outdoor wall-mounted design, it can be applied to harsh environments. Except for the core components, all other parts can be customized according to user requirements.



Electrical Parameters		
Maximum System DC Voltage	1000VDC	1500VDC
Maximum Input Current Per String	15A	
Maximum Input String	8	
Maximum Output Switching Current	125A	
Number of Inverter MPPTs	N	
Number of Output Strings	1	
Lightning Protection		
Test Category	II Grade Protection	
Nominal Discharge Current	20kA	
Maximum Discharge Current	40kA	
Voltage Protection Class	3.6kV	5.3kV
Maximum Continuous Operating Voltage U <sub>c</sub>	1050V	1500V
The Number of Poles	3P	
Structural Characteristics	Plug-push module	
System		
Protection Class	IP66	
Output Switch	DC Circuit Breakers(standard)/DC Isolation Switch(optional)	
MC4 Waterproof Connectors	Standard	
Photovoltaic DC Fuses	Standard	
Photovoltaic DC SPDs	Standard	
Monitoring Modules	Optional	
Anti-reverse Diode	Optional	
Enclosure Material	Metal	
Installation Method	Wall-mounted	
Working Temperatures	-25°C ~ +55°C	
Elevation of Temperature	2km	
Permissible Relative Humidity	0-95%, no Condensation	
Mechanical Parameter		
Width x High x Height	600*460*180mm	

## SCHEMATIC DIAGRAM





**FLEXIBLE CONFIGURATION**

With DC fuse. With DC surge protective device. With DC circuit breakers or DC load disconnect switch. Other components are optional, such as monitoring modules and anti-reverse diodes.

**HIGH RELIABILITY**

IP66 design, waterproof, dust-proof, UV protection. Strict high and low temperature testing for a wide range of applications.

**CONVENIENT INSTALLATION**

Simple installation, simple system wiring, easy wiring. Enclosure is made of metal materials.

**PRODUCT DESCRIPTION**

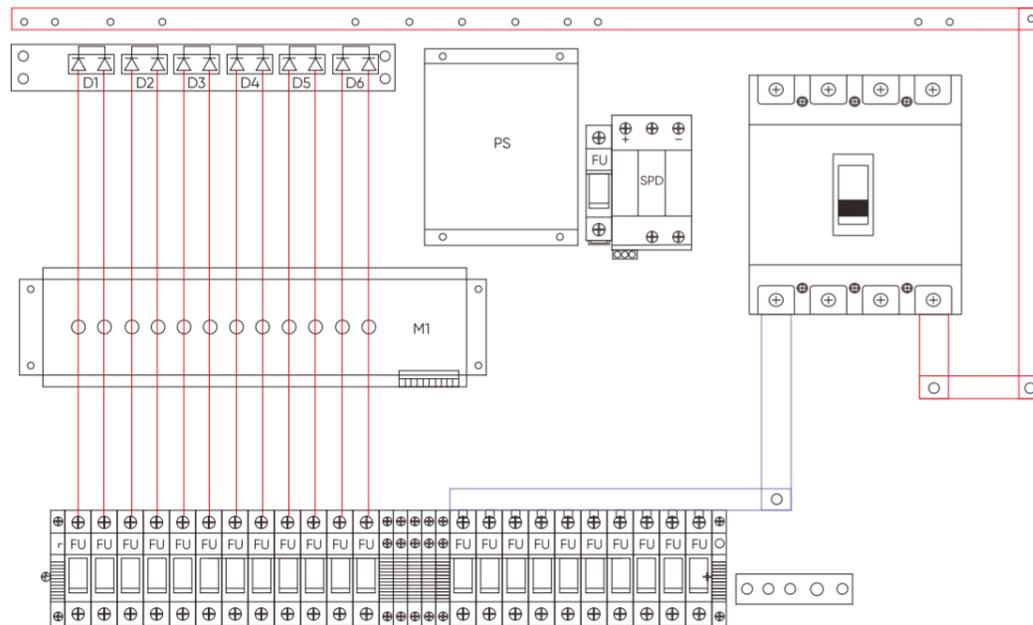
The DLCBP/12-1 PV Combiner Box combines the DC inputs of 12 PV modules into 1 output. Each channel is equipped with fuses, and the output is equipped with surge protectors and circuit breakers.

It greatly simplifies the input wiring of DC power distribution cabinets and inverters, and realizes lightning protection, short circuit protection and grounding protection.

There are two types of PV convergence boxes: intelligent and non-intelligent. Intelligent PV converter boxes are equipped with monitoring units that can detect the output current, internal temperature, lightning protection status, circuit breaker status and summarize the output voltage and other information of each string column.

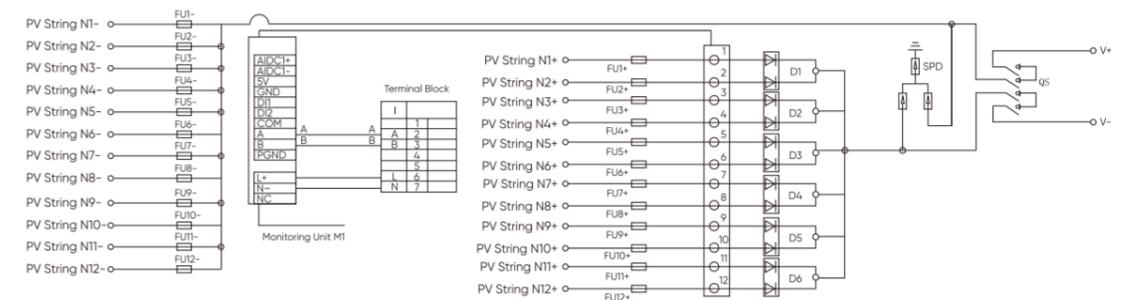
The design and configuration are in strict accordance with the Technical Specification for Photovoltaic Wiring Devices CGC/GF037:2014. Provide users with safe, simple, beautiful and applicable PV system products.

Adopting outdoor wall-mounted design, it can be applied to harsh environments. Except for the core components, all other parts can be customized according to user requirements.



Electrical Parameters		
Maximum System DC Voltage	1000VDC	1500VDC
Maximum Input Current Per String		15A
Maximum Input String		12
Maximum Output Switching Current		200A
Number of Inverter MPPTs		N
Number of Output Strings		1
Lightning Protection		
Test Category		II Grade Protection
Nominal Discharge Current		20kA
Maximum Discharge Current		40kA
Voltage Protection Class	3.6kV	5.3kV
Maximum Continuous Operating Voltage Uc	1050V	1500V
The Number of Poles		3P
Structural Characteristics		Plug-push module
System		
Protection Class		IP66
Output Switch		DC Circuit Breakers(standard)/DC Isolation Switch(optional)
MC4 Waterproof Connectors		Standard
Photovoltaic DC Fuses		Standard
Photovoltaic DC SPDs		Standard
Monitoring Modules		Optional
Anti-reverse Diode		Optional
Enclosure Material		Metal
Installation Method		Wall-mounted
Working Temperatures		-25°C ~ +55°C
Elevation of Temperature		2km
Permissible Relative Humidity		0-95%, no Condensation
Mechanical Parameter		
Width x High x Height		650*460*180mm

**SCHEMATIC DIAGRAM**





**FLEXIBLE CONFIGURATION**

With DC fuse. With DC surge protective device. With DC circuit breakers or DC load disconnect switch. Other components are optional, such as monitoring modules and anti-reverse diodes.

**HIGH RELIABILITY**

IP66 design, waterproof, dust-proof, UV protection. Strict high and low temperature testing for a wide range of applications.

**CONVENIENT INSTALLATION**

Simple installation, simple system wiring, easy wiring. Enclosure is made of metal materials.

**PRODUCT DESCRIPTION**

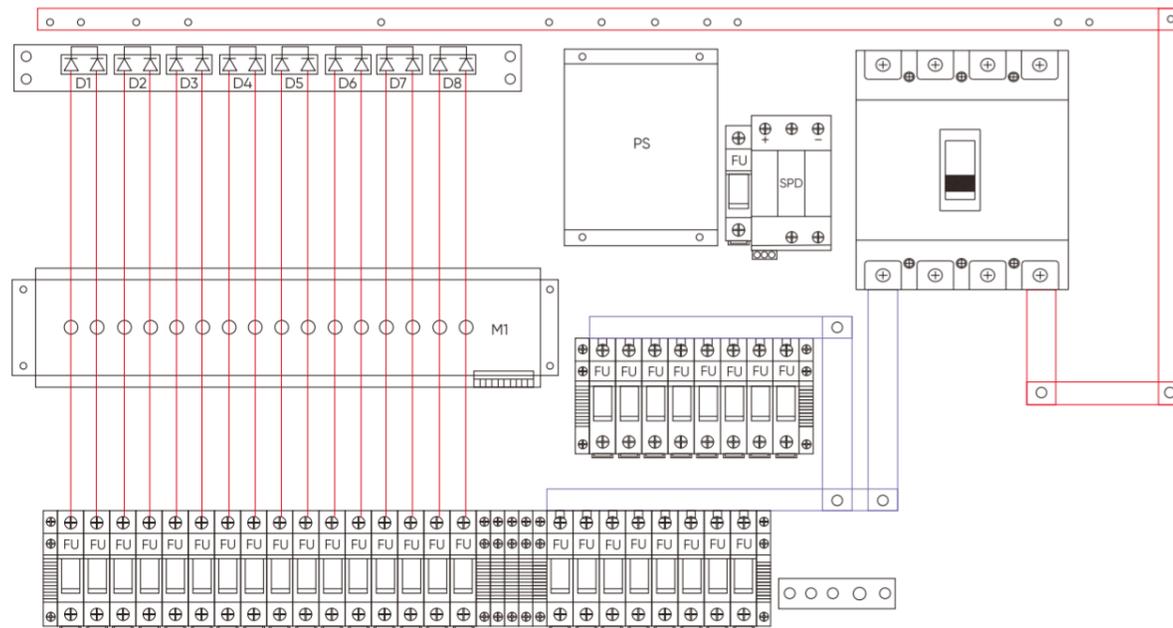
The DLCBP/16-1 PV Combiner Box combines the DC inputs of 16 PV modules into 1 output. Each channel is equipped with fuses, and the output is equipped with surge protectors and circuit breakers.

It greatly simplifies the input wiring of DC power distribution cabinets and inverters, and realizes lightning protection, short circuit protection and grounding protection.

There are two types of PV convergence boxes: intelligent and non-intelligent. Intelligent PV converter boxes are equipped with monitoring units that can detect the output current, internal temperature, lightning protection status, circuit breaker status and summarize the output voltage and other information of each string column.

The design and configuration are in strict accordance with the Technical Specification for Photovoltaic Wiring Devices CGC/GF037:2014. Provide users with safe, simple, beautiful and applicable PV system products.

Adopting outdoor wall-mounted design, it can be applied to harsh environments. Except for the core components, all other parts can be customized according to user requirements.



Electrical Parameters		
Maximum System DC Voltage	1000VDC	1500VDC
Maximum Input Current Per String	15A	
Maximum Input String	16	
Maximum Output Switching Current	250A	
Number of Inverter MPPTs	N	
Number of Output Strings	1	
Lightning Protection		
Test Category	II Grade Protection	
Nominal Discharge Current	20kA	
Maximum Discharge Current	40kA	
Voltage Protection Class	3.6kV	5.3kV
Maximum Continuous Operating Voltage U <sub>c</sub>	1050V	1500V
The Number of Poles	3P	
Structural Characteristics	Plug-push module	
System		
Protection Class	IP66	
Output Switch	DC Circuit Breakers(standard)/DC Isolation Switch(optional)	
MC4 Waterproof Connectors	Standard	
Photovoltaic DC Fuses	Standard	
Photovoltaic DC SPDs	Standard	
Monitoring Modules	Optional	
Anti-reverse Diode	Optional	
Enclosure Material	Metal	
Installation Method	Wall-mounted	
Working Temperatures	-25°C ~ +55°C	
Elevation of Temperature	2km	
Permissible Relative Humidity	0-95%, no Condensation	
Mechanical Parameter		
Width x High x Height	700*460*180mm	

**SCHEMATIC DIAGRAM**

