





















# CERTIFICATE



# **CATALOGUE**

PV Solar Circuit Breaker	01
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# **PV Solar Dedicated Circuit Breaker**



PV DC breaker supplementary protectors are designed to provide overcurrent protection within appliance or electrical equipment, where a branch circuit protection is already providedor not required. Devices are designed for direct curremt(DC) control circuit applications.









#### □ Product Introduction

LKTB1-50/PV series photovoltaic DC circuit breaker (non-polarity) is mainly used in solar photovoltaic power generation systems. The working voltage is up to DC1000V, and the rated current is up to 63A. It can be used for overload and short-circuit protection. It can quickly disconnect the DC power distribution system. The fault current protects the important components in the solar power generation system-photovoltaic modules from the harm of the DC side reverse current and the AC side feedback current caused by the inverter fault, and ensures the reliable operation of the solar photovoltaic power generation system.

## □ Model and Signification



#### □ Features

PV series of photovoltaic DC fuses can realize non-polar connection, which can ensure safety of equipment

#### □ Specification

Model	LEADER-50/PV		
Product Picture	LEAGUE Non-Prayand  LEAGUE	LEAZEST Non-Polyhed  Non-Polyhed  Non-Polyhed  Non-Polyhed  Non-Polyhed	
Pole	2P	4P	
Rated Voltage(V)	DC500	DC1000	
Rated Current(A)	6, 10, 16, 20, 2	25, 32, 40, 50, 63	
Rated Insulation Voltage (V)	1	000	
Rated Impact Voltage (V)	6		
Biggest Block Ability(KA)	6		
Instantaneous Tripping Characteristics	С		





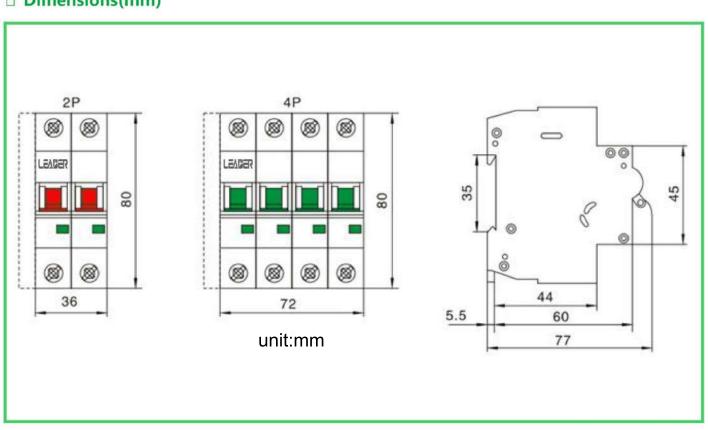




# □ Wiring Diagram

Model	LKTB1-50/PV	LKTB1-50/PV		
Connection	1 3 -/+ 1 3			
	2P	4P		
Life		average value 20000 dard value 1500		
Working Temperture((℃)	-2!	5~40		
Wiring Capacity Connection	In≤32A 1-25mm²,	In≥40A 10-35mm²		
DIN rail(mm)	35HX80WX71D			
Weight (g)	234 465			
Standard	IEC60947-2 GB14048.2			

# □ Dimensions(mm)



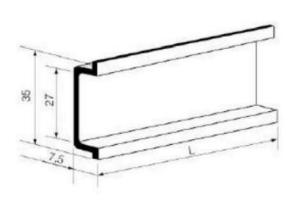




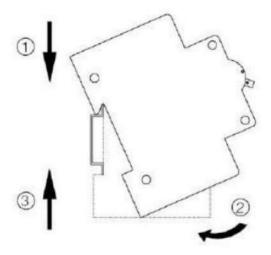




# ☐ Installation Diagram



TH35-7.5 Mounting Din-Rail



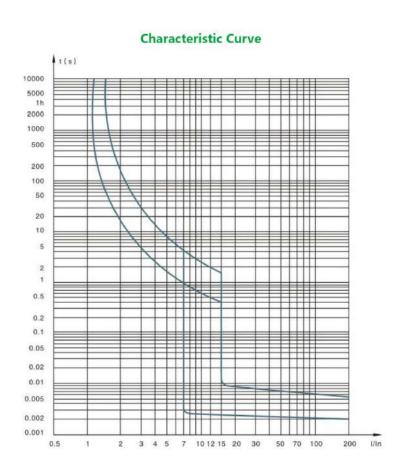


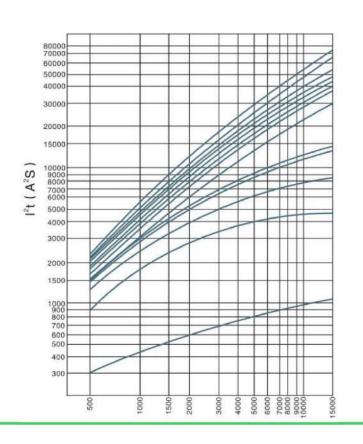






#### Characteristics Curve







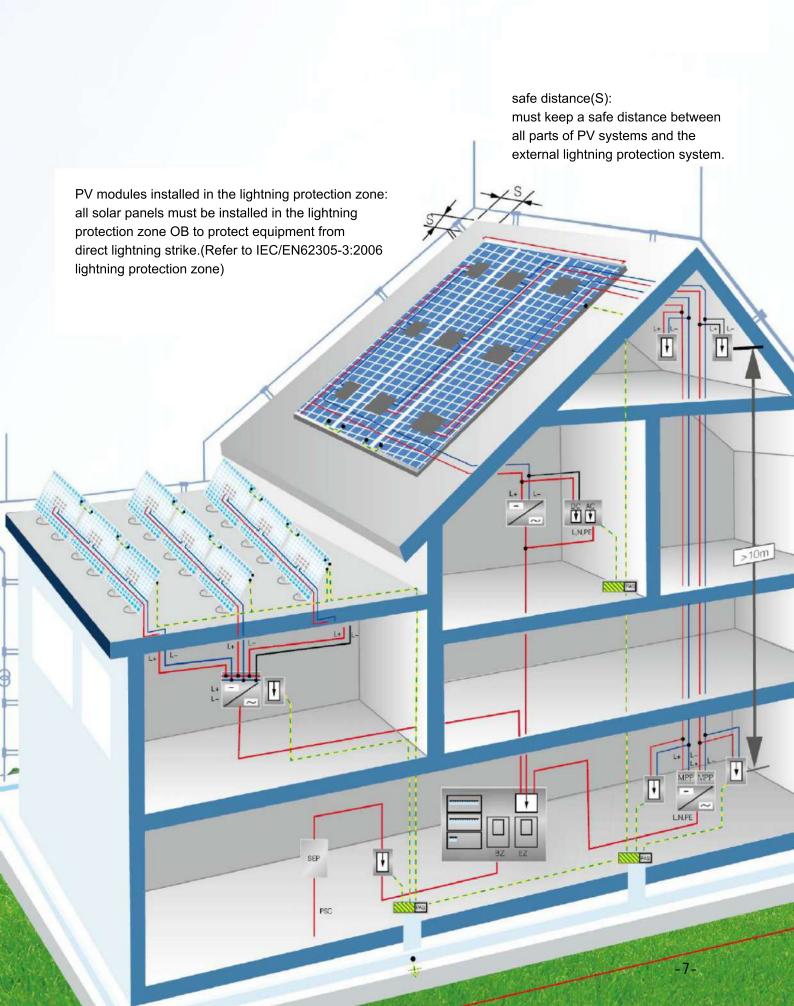
# PV SURGE PROTECTOR

PV surge protective device, protect against lightning surge voltages in solar system (photovoltaic power supply system). These units must be installed in parallel on the DC networks to be protected and provide common and different modes protection. The installed location are recommended at both ends of the DC power supply line (solar panel side and inverter/converter side).

The handle connecting rod material you can choose stainless steel, or plastic materials











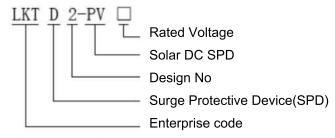




#### □ Product Introduction

LKTD2 series surge protectors are mainly used for lightning protection of photovoltaic low-voltage DC power distribution systems, which can effectively prevent lightning current from damaging solar panels, photovoltaic combiner boxes, DC power distribution cabinets and inverters and other photovoltaic supporting facilities. LKTD2 series SPD has common mode (MC) and differential mode (MD) protection modes. The product complies with IEC61643-1 and GB18802.1 standards.

### ☐ Model and Signification



#### □ Technical Parameter

Model	LKTD2-PV1000				
Product Picture	LEADER  Type Provides Ones  United Provides Un				
Pole	2P 2P				
Maxi Continuous Operating Voltage	DC670	DC1300			
Voltage Protective Level Up(kV)≤	2.5	4.0			
Maxi Discharging Current (8/20μs)Imax(kA)		40			
Nominal Discharging Current (8/20μs)In(kA)	20				
Response Time(ns)		<25			
Protection Grade	IP20				
Indication of Invalidation	White: Normal, Red: Invalidation				
Application	Secondary P	Secondary Protection For In Line			
Remote Signal Function	No	t Available			

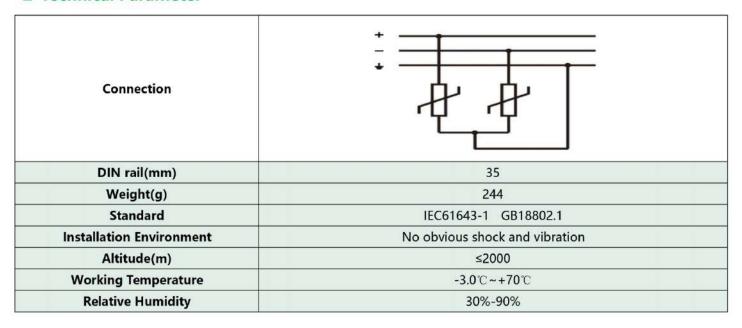


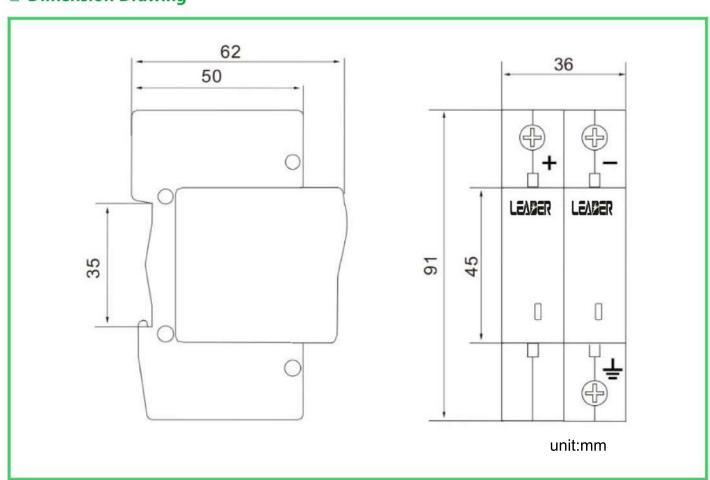






## □ Technical Parameter









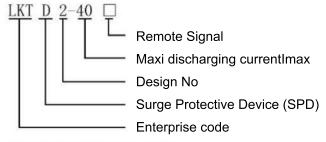




#### □ Product Introduction

LKTD2 series surge protectors are mainly used for lightning protection of photovoltaic low-voltage DC power distribution systems, which can effectively prevent lightning current from damaging solar panels, photovoltaic combiner boxes, DC power distribution cabinets and inverters and other photovoltaic supporting facilities. LKTD2 series SPD has common mode (MC) and differential mode (MD) protection modes. The product complies with IEC61643-1 and GB18802.1 standards.

### Model and Signification



#### □ Technical Parameter

Model	LKTD2-40	LKTD2-40F			
Product Picture	PE +/-  Burga Finitestical Device  LKD2-40F  LKP2 **Minimum LKP2-40F  L	LEADER Large Protection Device  LINTO - 4-10  Uses 1000-10  LINTO - 4-10  Uses 1000-10  Lings 10			
Pole		3			
Maxi Continuous Operating Voltage UC(V)	DC1	1000			
Voltage Protective Level Up(kV)≤	4	.5			
Maxi Discharging Current (8/20μs)lmax(kA)	4	10			
Nominal Discharging Current (8/20µs)In(kA)	2	20			
Response Time(ns)	<	25			
Protection Grade	IP	20			
Indication of Invalidation	Green: Normal, Red: Invalidation				
Application	Secondary Protection For In Line				
Remote Signal Function	Not Available	Available			



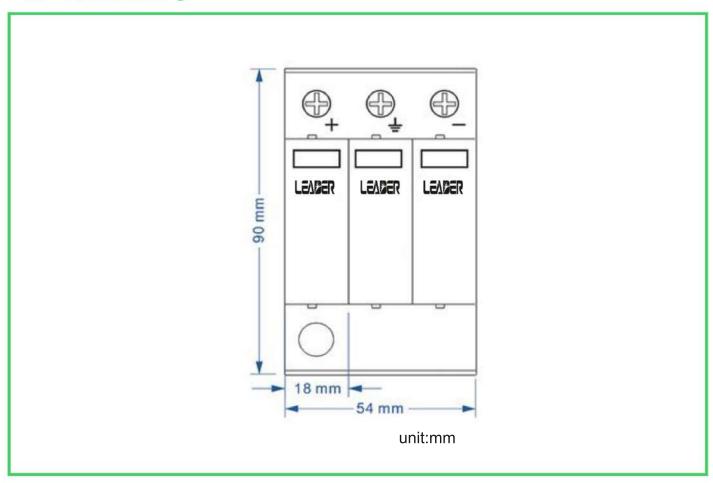






## ☐ Technical Parameter

Model	LKTD2-40	LKTD2-40F		
Connection				
DIN rail (mm)	35mm steel	mounting rail		
Weight(g)	305	312		
Standard	IEC61643-1	GB18802.1		
Installation Environment	No obvious she	ock and vibration		
Altitude(m)	≤2000			
Working Temperature	-3.0℃~+70℃			
Relative Humidity	30%-90%			





# PV DC FUSE

DC Fuse and fuse holder mainly used in DC Combiner box in solar pv system, when PV panel or inverter causes overloador short circuit, it trip off immediately to protect PV panels.DC fuse also used to protect other electrical electrical parts in DC circuit, when overload or short circuit.







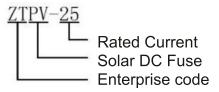






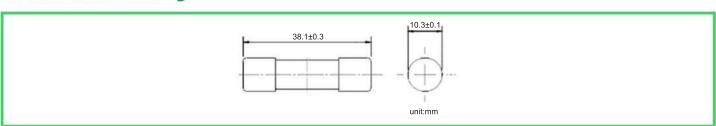


# □ 型号及含义 Model and Signification



## □ Technical Parameter

Mod	el	ZTPV-25		
Product I	Picture		SOLAR gP\ ZTPV-25	Acceptance of the property of the control of the co
Size(n	ım)		10×38	
Rated Vol	tage(V)	DC1000		
Rated Cur	rent(A)	1, 2, 3, 4, 5, 6, 8, 10, 12, 15, 16, 20, 25, 30, 32		
Rated Breaking	Capacity(KA)	33		
Class of Op	peration		gPV	
Working Temp	perature(°C)		-50~105	
Altitud	le(m)		≤2000	
Weight	t((g)	10		
Stand	ard		IEC60269.6	
		Material Det	ails	
Part Name	Сар	Body	Fuse Element	Arc-extinguishing Agent
Material	Red Copper	Aluminium Oxide	Silver	Silica





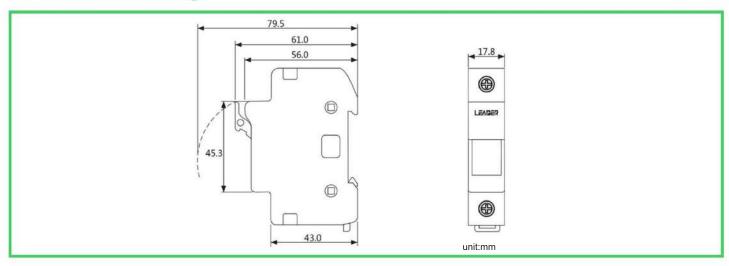






## □ Technical Parameter

Model	ZTPV-25B	ZTPV-25X			
Product Picture	LEADER  WHAT TIPE-FOR  WHAT TIPE-FOR	Series: TPP-23x  IMA TIPLEX  IMA TIPLEX  IMA TIPLEX  IMA TO THE SERIES OF THE SERIES  IMA TO THE SERIES  IMA			
Pole	1P				
Fuse Link Size(mm)	10×38				
Rated Voltage(V)	DC1	000			
Rated Current(A)	3	2			
DIN Rail(mm)	3	5			
Weight(g)	60	61			
Standard	IEC60269.6				
	Material Details				
Part Name	Plastic Cement Copper				
Material	PBT(V-0) Red Copper				





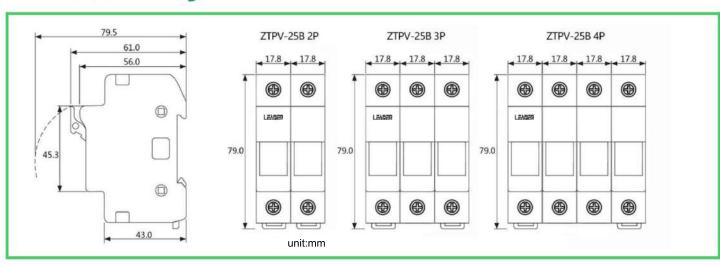






## □ Technical Parameter

Model		ZTPV-25B				
Product Picture	LEADER MICHAEL MARKET M	USA THE SE	MARCH WWW			
Pole	2P	3P	4P			
Fuse Link Size((mm)		10×38				
Rated Voltage(V)		DC1000				
Rated Current(A)		32				
DIN Rail(mm)		35				
Weight(g)	120	182	243			
Standard	IEC60269.6					
	Material Detai	ls				
Part Name	Plastic Cement Copper					
Material	PBT(V-0) Red Copper					







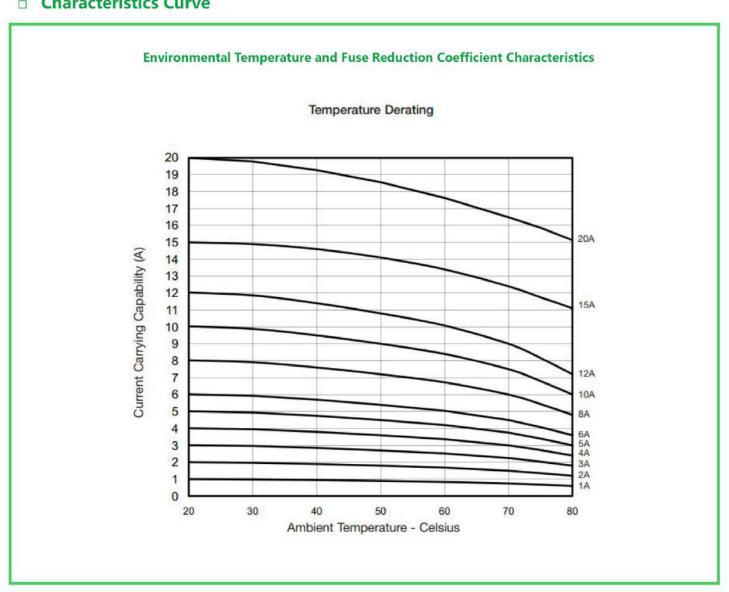




#### □ Power Loss

Model	Rated Current	Joule Integral I <sup>2</sup> t (A <sup>2</sup> s)		Power Loss(W)	
	(Amps)	Pre-Arcing	Total at 1000V	0.8In	1.0ln
	1	0.15	0.4	0.8	1.5
	2	1.2	3.4	0.6	1.0
	3	4	11	0.8	1.3
ZTPV-25	4	9.5	26	1.0	1.5
	5	19	50	1.0	1.6
	6	30	90	1.1	1.8
	8	3	32	1.2	2.1
	10	7	70	1.2	2.3
	12	12	120	1.5	2.7
	15	22	220	1.7	2.9
	20	34	350	2.1	3.6

### □ Characteristics Curve





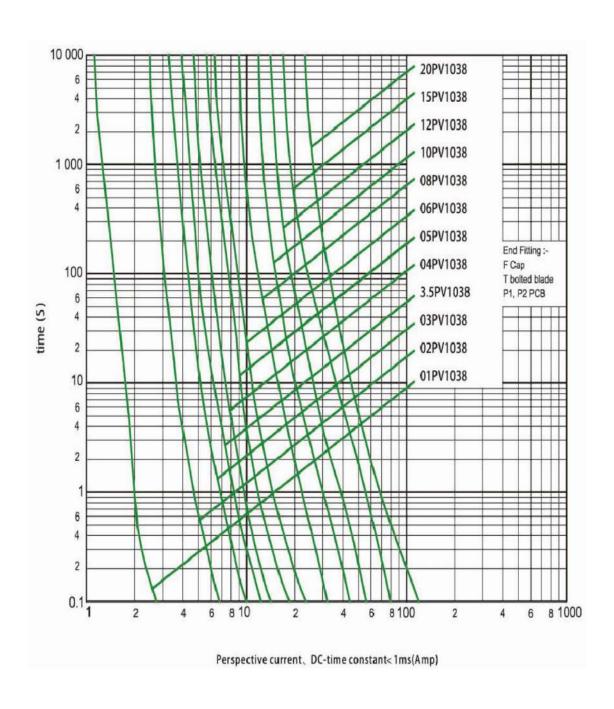






## □ Characteristics Curve







Each pole contact equiped with arc extinguish system , can eliminate arc immediately when switch off

# DC ISOLATOR











## DC Isolator Swicth





SISO-40

SISO-40

## DC ISOLATING SWITCH

- UV Resistant IP66 Enclosure
- Extremely Short Power Shut Off Time Of Approx.2ms
- Lid Only Removable In "off" Position
- Earth Terminal
- IEC60947-3,AS/NZS60947.3: 2015
- DC-PV1 DC-PV2 DC-21B
- 10A To 32A UP To DC1000v
- Easy To Install









#### **Specifications**

Rated Voltage	1000VDC
IP Rating	IP66
Connection Type	M20 M25 MC4
Rated Current	10A,16A,20A,25A, 32A
Working Temperature	-25°C~+85°C
Standard	IEC60947-3, AS/NZS60947.3:2015

This product passed IEC authorized Lab IP66 waterproof testing. Also our company will take simulation tests irregularly, similar to customer's using environment, to make sure this product completely conforms to IP66 protection grade













# DC Isolator Swicth

#### **Specifications**

Contact configuration	600V	800V	1000V	1200V	Poles In series	Number of strings	Type Number
1 3	16A	16A	9A	9A	2	1	SISO-16P2
	25A	20A	11A	11A	2	1	SISO-25P2
	32A	23A	13A	13A	2	1	SISO-32P2
1 3 5 7	29A	16A	9A	9A	2	1	SISO-16P2H
2 4 6 8	45A	20A	11A	11A	2	1	SISO-25P2H
* 000 °	50A	23A	13A	13A	2	1	SISO-132P2H
1 3 5 7	16A	16A	9A	9A	2	2	SISO-16P4
2 4 6 8	25A	20A	11A	11A	2	2	SISO-125P4
	32A	23A	13A	13A	2	2	SISO-32P4
1 3 5 7	16A	16A	16A	16A	4	1	SISO-16P4S
1 1 1	25A	25A	25A	25A	4	ī	SISO-25P4S
	32A	32A	32A	32A	4	1	SISO-32P4S
1 3 5 7	16A	16A	16A	16A	4	1	SISO-16P4B
2 4 6 8	25A	25A	25A	25A	4	1	SISO-25P4B
	32A	32A	32A	32A	4	1	SISO-32P4B
1 3 5 7	16A	16A	16A	16A	4	1	SISO-16P4T
1 3 5 7	25A	25A	25A	25A	4	1	SISO-25P4T
Proceeding	32A	32A	32A	32A	4	1	SISO-32P4T

1500V DC voltage require customized



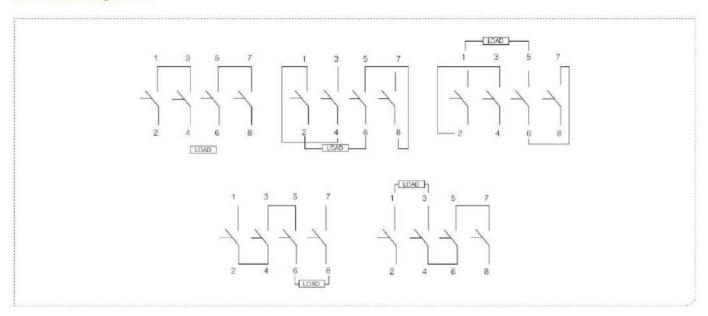




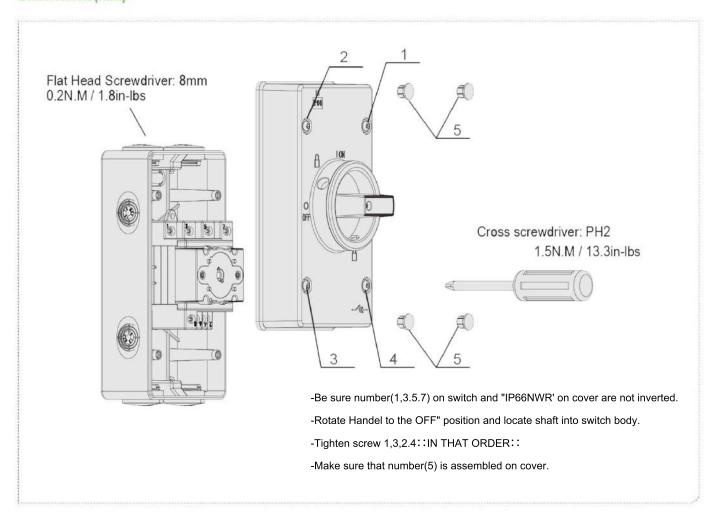


# DC Isolator Swicth

#### **Contact Configuration**



#### Dimensions(mm)











#### DC COMBINER BOX TYPE



- 1 LEADER electric
- 2 Product model (combiner box)
- 3 PV
- 4 Input channel (1-12)
- (5) No. of output channel of MPPT
- 6 Monitoring unit
- 7 Diode
- 8 DC550V/DC1000V













## LDCB-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.

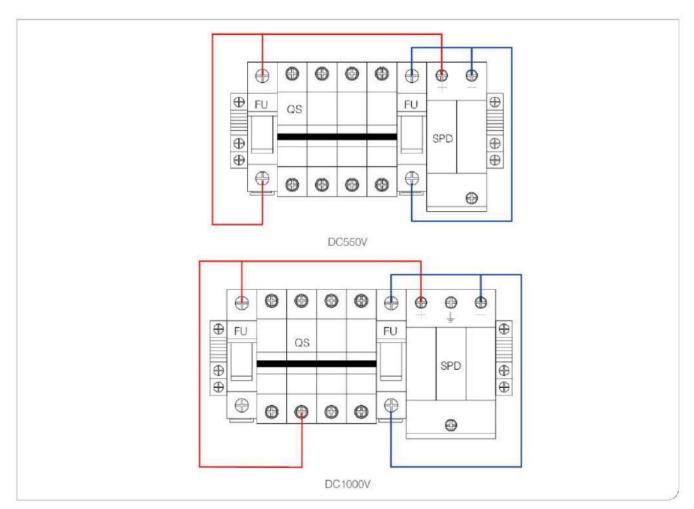
The simple installation, the simplified system wiring, the convenient wiring.

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.





#### DESCRIPTION

LDCB-PV1/1 combiner box is suitable for inverter (MAX input voltage DC550V/DC100V, 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.



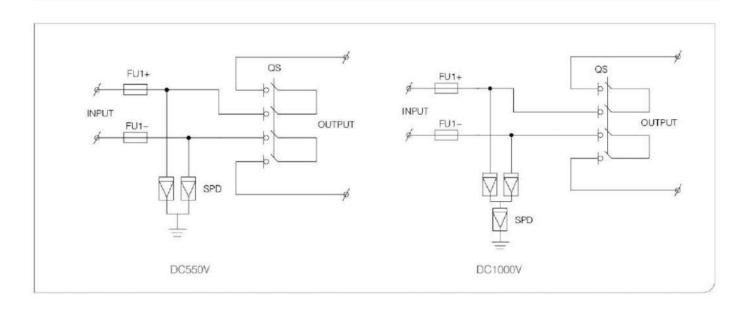




#### **TECHNICAL PARAMETERS**

Name	LDCB-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
	L	ightning protection
Category of test	II grade protection	
Nominal discharge current	20kA	
Maximum discharge current	40kA	
/oltage protection level	2.8kV	3.8kV
Maximum continuous operating voltage Uc	630V	1050V
Poles	2P	3P
tructure characteristic		Plug-push module
		System
Protection grade	IP65	
Output switch	DC isolation switch	(standard)/DC circuit breaker(optional)
MC4 Waterproof Connectors	Standard	
PV dc fuse	Standard	
V surge protector	Standard	
Monitoring module	Optional	
reventing diode		Optional
lox material		PVC
nstallation method	,	Wall mounting type
Operating Temperature	-25℃~+55℃	
levation of temperature	2km	
Permissible relative humidity	0-9	5% , no condensation
	M	lechanical parameter
Vidth×High×Depth		300×260×140

### SCHEMATIC DIAGRAM











## LDCB-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.

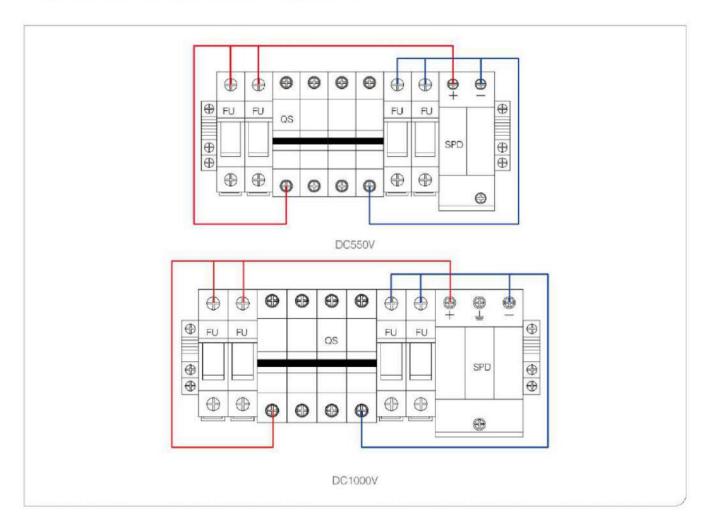
The simple installation, the simplified system wiring, the convenient wiring.

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.





#### **DESCRIPTION**

LDCB-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 impac, 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.





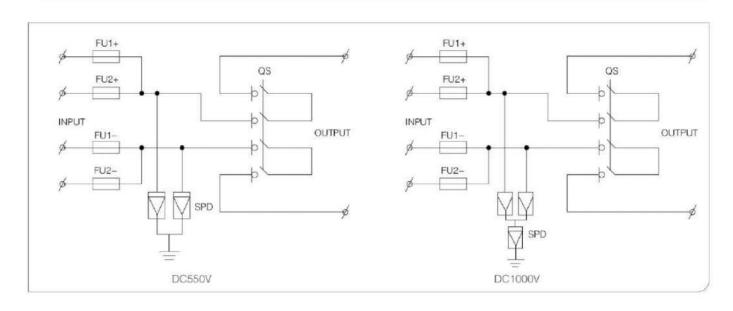




#### **TECHNICAL PARAMETERS**

Name	LDCB-PV2/1	
	E	lectric 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
	Lig	htning protection
Category of test	п	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
Structure characteristic	P	lug-push module
		System
Protection grade	IP65	
Output switch	DC isolation switch(st	tandard)/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
	Me	chanical parameter
Width×High×Depth	300×260×140	

#### **SCHEMATIC DIAGRAM**











## LDCB-PV6/1 DC COMBINER BOX

High reliability
 With DC FUSE
 With DC Surge Protection Device
 With DC circuit breaker or DC load isolation switch.

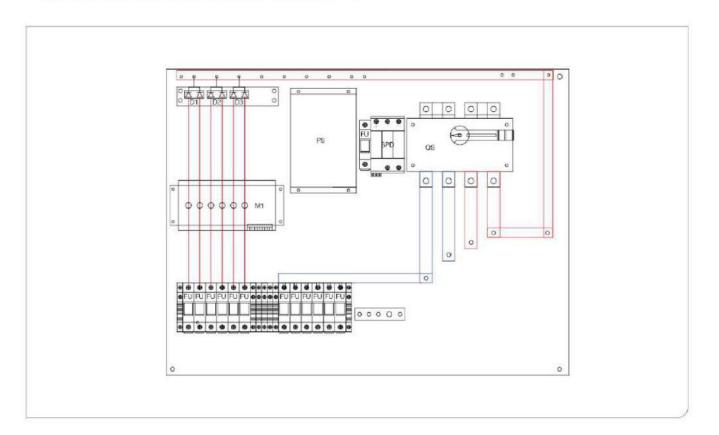
Strong adaptability
 IP65 design, waterproof, anti dust and anti ultraviolet.
 Strict test for high and low temperature, used widely.

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

LDCB-PV6/1 PV combiner box bus synthetic DC input of 6 PV components to 1 output. Each channel is with a fuse. Outout side is ecquipped with lightning protection and circuit breaker.it greatly simplify input wiring of DC power distibution 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 adition to the core components, the other can be customized by user requirements.





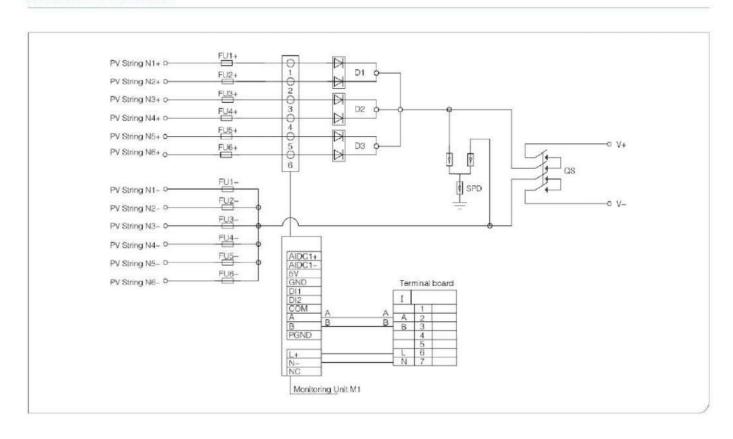




#### **TECHNICAL PARAMETERS**

Name	LDCB-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	
/oltage 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	
V surge protector	Standard	
Monitoring module	Optional	
Preventing diode	Optional	
Box material	Metal	
nstallation method	Wall mounting type	
Operating Temperature	-25°C~+55°C	
elevation of temperature	2km	
Permissible relative humidity	0~95%, no condensation	

#### SCHEMATIC DIAGRAM











#### LDCB-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.

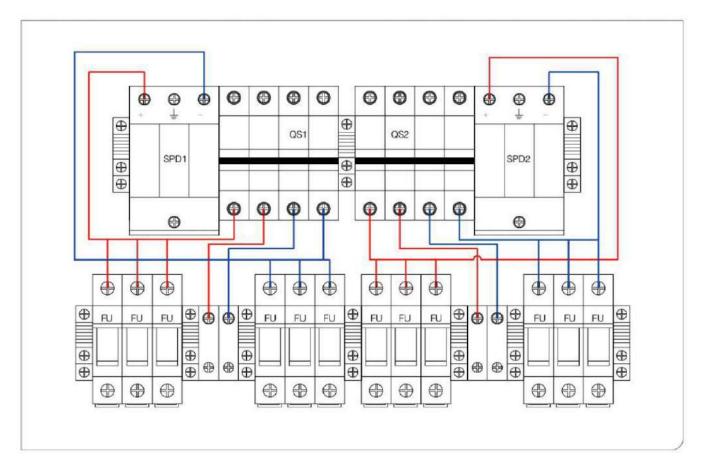
The simple installation, the simplified system wiring, the convenient wiring .

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

LDCB-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, ant 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.





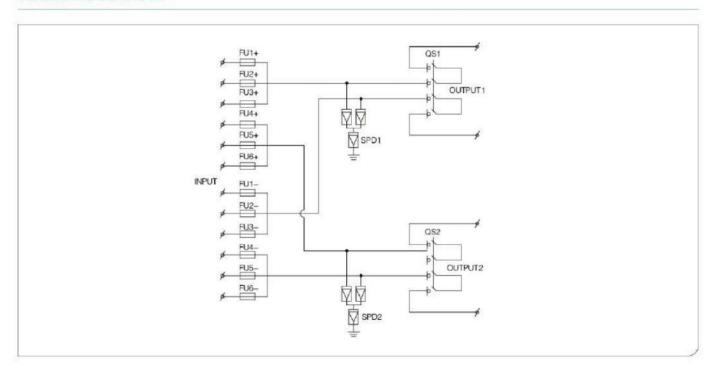




#### **TECHNICAL PARAMETERS**

Name	LDCB-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
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	PVC
Installation method	Wall mounting type
Operating Temperature	-25℃~+55℃
Elevation of temperature	2km
Permissible relative humidity	0~95%, no condensation
	Mechanical parameter
Width×High×Depth	400×300×160

#### **SCHEMATIC DIAGRAM**











#### LDCB-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.

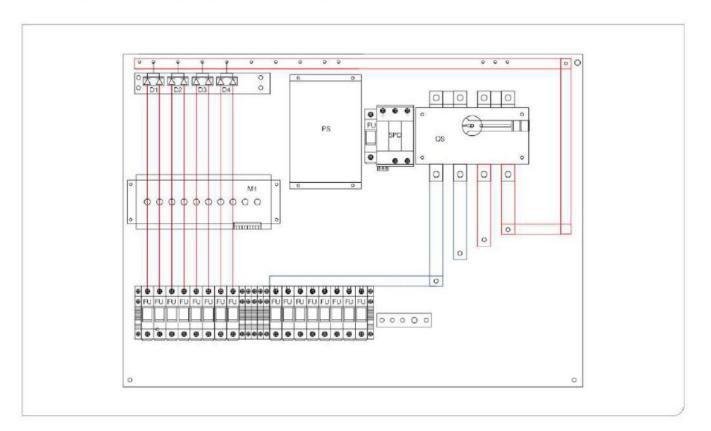
The simple installation, the simplified system wiring, the convenient wiring.

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

LDCB-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 wring 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 strin, 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 junctici 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.



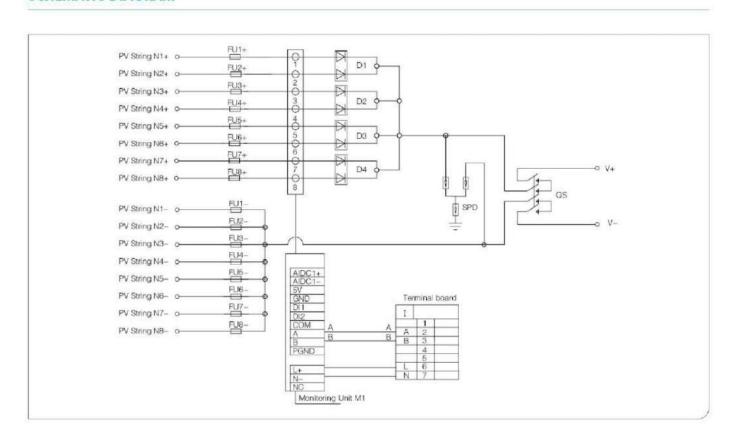




#### **TECHNICAL PARAMETERS**

Name	LDCB-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 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











#### LDCB-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.

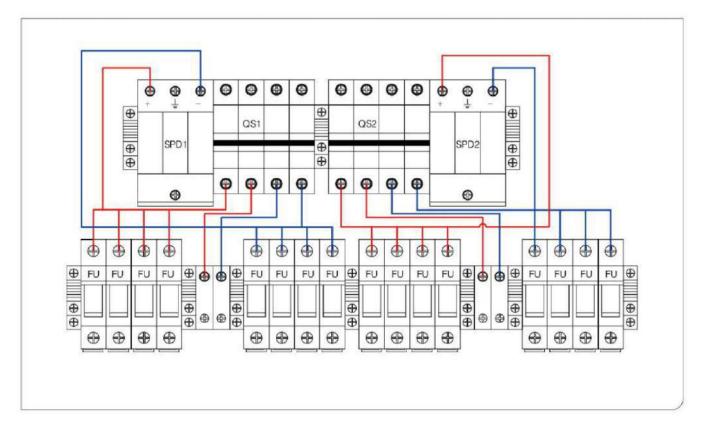
The simple installation, the simplified system wiring, the convenient wiring.

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

LDCB-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, ant 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.



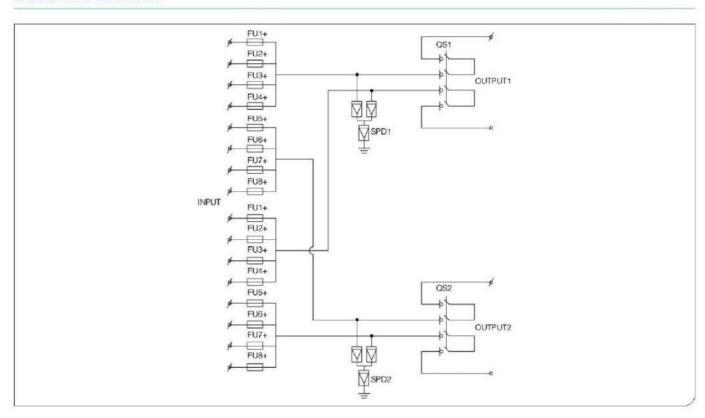




#### **TECHNICAL PARAMETERS**

Name	LDCB-PV8/2	
	Electric parameter	
ystem maximum dc voltage	1000	
Maximum input current for each string	15A	
Maximum input strings	8	
Maximum output switch current	20A/32A	
lumber of inverter MPPT	2	
lumber of Output strings	2	
	Lightning protection	
Category of test	II grade protection	
Iominal discharge current	20kA	
Maximum discharge current	40kA	
Oltage protection level	3.8kV	
Maximum continuous operating voltage Uc	1050V	
Poles	3P	
tructure characteristic	Plug-push module	
	System	
rotection grade	IP65	
Output switch	DC isolation switch(standard)/DC circuit breaker(optional)	
MC4 Waterproof Connectors	Standard	
V dc fuse	Standard	
V surge protector	Standard	
Monitoring module	Optional	
reventing diode	Optional	
lox material	PVC	
nstallation method	Wall mounting type	
Operating Temperature	-25℃~+55℃	
levation of temperature	2km	
Permissible relative humidity	0~95% , no condensation	
	Mechanical parameter	
Vidth×High×Depth	500×400×190	

#### **SCHEMATIC DIAGRAM**











#### LDCB-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.

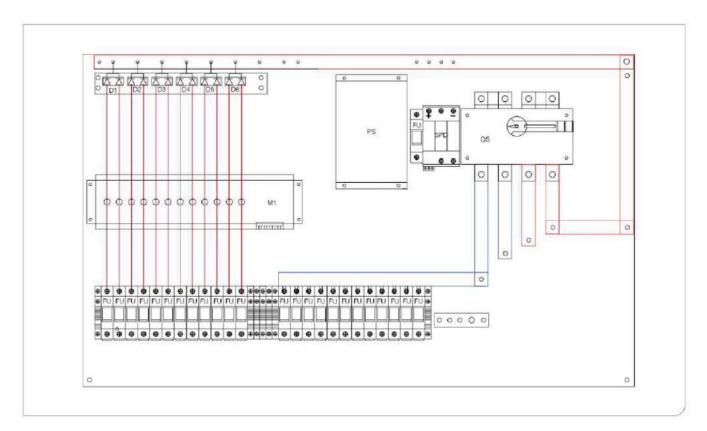
The simple installation, the simplified system wiring, the convenient wiring.

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

LDCB-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. Intellient PV combiner box is equipped with monitoring unt, 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 equipmet " 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 adition to the core components, the other can be customized by user requirements.







#### **TECHNICAL PARAMETERS**

Name	LDCB-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	
SAMPLE SA	Lightning protection	
Category of test	II grade protection	
Nominal discharge current	20kA	
Maximum discharge current	40kA	
/oltage protection level	3.8kV	
Maximum continuous operating voltage Uc	1050V	
Poles	3P	
Structure characteristic	Plug-push module	
	System	
Protection grade	IP65	
Dutput switch	DC isolation switch(standard)/DC circuit breaker(optional)	
SMC4 Waterproof Connectors	Standard	
PV dc fuse	Standard	
V surge protector	Standard	
Monitoring module	Optional	
Preventing diode	Optional	
Box material	Metal	
nstallation method	Wall mounting type	
Operating Temperature	-25℃~+55℃	
levation of temperature	2km	
Permissible relative humidity	0~95%, no condensation	

#### SCHEMATIC DIAGRAM

