

► ONE-STOP SOLUTION FOR SOLAR CABLE WIRING SYSTEMS



Website: www.leadergroup-cn.com

Email: info@leadergroup-cn.com

WhatsApp: +86 136 4291 9927

Marketing Center Address: No 1, Chang Qing South Road,
Chang'an, Dongguan, Guangdong, China

Factory Address: Building 7, Yibo Industrial Park, Yuehai
Avenue, Xiegang, Dongguan, China



LEADER

POWERED BY NATURE CONNECTED FOR EXCELLENCE

PRODUCTS CATALOGUE

LEADER CABLE



Q LEADER CABLE

About Us



Factory Reception



Sample Show Room

Leader Group was established in 2008 and specializes in the R&D and production of solar cables, solar connectors, solar junction boxes, cable wiring harnesses, power cables, and other products of photovoltaic protection accessories.

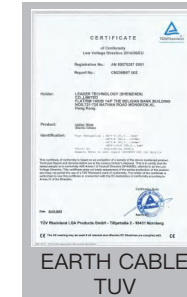
We have two production bases in Guangdong and Jiangsu, with more than 300 employees. The turnover in 2023 has reached 240 million US dollars. Top 5 manufacturers of solar cables in China. Product sales network covers the world and exports to 80 countries and regions in the Americas, Europe, the MiddleEast, Southeast Asia, Africa, Oceania, etc.; We have formed strategic partnerships with many world-class international photovoltaic EPC companies. Trusted partners of numerous Fortune 500 companies. By 2023 our products have successfully connected over 40 GW of photovoltaic output in 80 countries and regions worldwide.

Leader Group will continue creating a reliable, high-quality, low-cost photovoltaic connection system, contribute to the construction of global clean energy, and connect the future.

Product Certificate



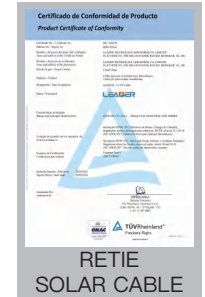
TUV EN 50618
CABLE



EARTH CABLE
TUV



UL4703



RETIE
SOLAR CABLE



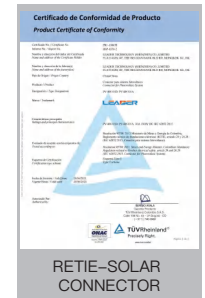
CPR IEC62930



CE



CONNECTOR
ROHS CERTIFICATE



RETIE-SOLAR
CONNECTOR



CONNECTOR
TUV CERTIFICATE



BRANCH CONNECTOR
TUV CERTIFICATE



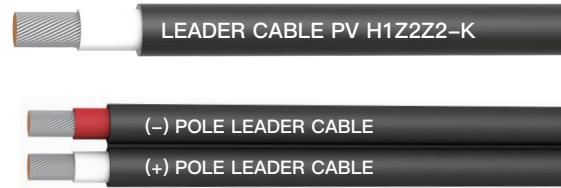
LVD DIRECTIVE
CABLE



EMC DIRECTIVE
CABLE

62930 IEC 131/H1Z2Z2-K Solar Cable

- Higher UV-stability
- Suitable for direct burial
- Water resistance
- Flammability class Cca acc.CPR
- Higher mechanical stability
- Higher insulation resistance



Characteristics

Conductor:Tinned stranded copper

Insulation:XLPO,Optional color

Jacket:XLPO,Optional color

Voltage Rating:DC1500V

Reference Standard:
EN 50618 & IEC 62930

Temperature Rating:

Rated:-40°C to +90°C

Max.conductor temp.:+120°C

Short circuit:+250°C

Testing Standard:

Smoke density test:Transmittance≥60% EN 50618

Cod bending test:-40°C±2°C no crack EN 60811-504

Cross Section (mm ²)	Conductor Construction (No./mm)	Strand Dia (mm)	Single Core Cable O.D. (mm)	Twin Core Cable O.D. (mm)	Conductor Resistance Max(Ω/km,20°C)
1.5	30/0.25	1.58	5.00	5.00*10.40	13.7
2.5	49/0.25	2.02	5.40	5.40*11.00	8.21
4.0	56/0.285	2.46	5.60	5.60*11.40	5.09
6.0	84/0.285	3.02	6.30	6.30*12.80	3.39
10	146/0.285	4.00	7.80	7.80*15.80	1.95
16	228/0.285	5.00	9.30	9.30*18.80	1.24
25	361/0.285	6.50	11.00	11.00*22.30	0.795
35	266/0.40	8.00	12.50	12.50*25.30	0.565

UL 4703 PV Cable

- UV resistant
- Rated for direct burial
- High flame retardant VW-1
- Low smoke halogen free
- Higher insulation resistance



Characteristics

Conductor:Bare or tinned copper, Aluminum(Optional)

Inner Layer:XLPO,Black or White

Out Layer:XLPO,Black, red or other colors

Testing Standard:

Test under fire conditions:UL1581 VW-1

Sunlight resistance:UL2556

Cold bend test:UL854

UL File No.:E518364

Temperature Rating:-40°C~+90°C

Nominal Voltage:1000/2000V

Voltage Test On Completed Cable:

U=1000V or 2000V

18~10AWG,6kV/min

8~2AWG,7.5kV/min

1~4/0AWG,9kV/min

AWG	Conductor Construction (No./mm)	Strand Dia (mm)	Cable O.D. (mm)	Conductor Resistance Max(Ω/km,20°C)
14	41/0.254	2.05	5.90	8.960
12	65/0.254	2.45	6.30	5.640
10	105/0.254	3.00	7.10	3.546
8	168/0.254	4.10	8.40	2.230
6	266/0.254	5.20	10.60	1.403
4	420/0.254	6.50	12.00	0.882

TÜV 2 PfG 2962 PV1500–SWR Solar Floating



Higher UV-stability



Salt mist resistant



Higher water resistance



Higher insulation resistance



TÜV 2PfG 2962 floating PV certification



Characteristics

Conductor:Tinned stranded copper

Insulation:XLPO,Optional color

Jacket:XLPO,Optional color

Rated Voltage:1500VDC

Ambient Temperature:-40°C to +90°C

Cross Section (mm ²)	Insulation Thickness (mm ²)	Jacket Thickness (mm)	Cable O.D. Upper (mm)	Conductor Resistance Max(Ω/km,20°C)
2.5	0.8	0.8	5.5	8.21
4.0	0.8	0.8	6.4	5.09
6.0	0.8	0.8	6.8	3.39
10	0.8	0.8	8.0	1.95
16	0.9	0.9	9.6	1.24

TÜV 2 PfG 2642 Aluminum Alloy Solar Cable



Higher UV-stability



Low smoke halogen free



Higher mechanical stability



Characteristics

Conductor Material:Stranded aluminum alloy,
and in accordance with IEC 60228,class5

Insulation Material:XLPO

Outer Sheath Material:XLPO

Rated voltage:U=1500VDC

Test Voltage:6.5kVAC/5min

Ambient Temperature:-40°C to +90°C

Max.Short Circuit Temp.:250°C/5s

Cross Section (mm ²)	Insulation Thickness (mm)	Insulation O.D. (mm)	Jacket Thickness (mm)	Cable O.D. (mm)	Conductor Resistance Max(Ω/km,20°C)
6	0.70	4.70	0.80	6.30	5.050
10	0.80	5.80	0.80	7.40	3.080
16	0.90	6.80	0.90	8.60	1.910
25	1.00	8.20	1.00	10.2	1.200
35	1.10	9.40	1.10	11.6	0.868
50	1.20	10.9	1.20	13.3	0.641
70	1.20	12.6	1.20	15.0	0.443
95	1.30	14.3	1.30	16.9	0.320
120	1.30	15.8	1.30	18.4	0.253
150	1.40	17.5	1.40	20.3	0.206
185	1.60	19.4	1.60	22.6	0.164
240	1.70	21.9	1.70	25.3	0.125

H07Z-K Earth Cable



Higher UV-stability



Low smoke halogen free



Higher mechanical stability



Characteristics

Conductor: Stranded, tinned or bare copper
conductor 1.5~120mm²

Insulation: XLPO, Passed RoHS

Rated Temperature: 90°C

Rated Voltage: 450/750V

Standard: EN 50525-3-41

Cross Section (mm ²)	Construction (No./mm)	Strand Dia	Cable O.D. (mm)	Conductor Resistance Max(Ω/km, 20°C)
4	56/0.285	2.45	4.30	5.09
6	84/0.285	3.02	4.80	3.39
10	146/0.285	4.20	6.60	1.95
16	228/0.285	5.00	7.80	1.24
25	182/0.40	6.50	9.50	0.795
35	266/0.40	8.00	11.0	0.565

ESP15Z3Z3-K Energy Storage Cable



Higher UV-stability



Suitable for direct burial



Higher mechanical stability



Characteristics

Conductor: Tinned stranded copper

Insulation: XLPO, Optional color

Jacket: XLPO, Optional color

Rated Temperature: -40~125°C

Rated Voltage : 1500V DC

Standard: 2 PfG 2693/03.23

Cross Section (mm ²)	Construction (No./mm)	Strand Dia	Cable O.D. (mm)	Conductor Resistance Max(Ω/km, 20°C)
10	74/0.40	3.97	8.20	1.950
16	120/0.40	5.20	10.20	1.240
25	182/0.40	6.50	12.00	0.795
35	252/0.40	7.80	13.20	0.565
50	373/0.40	9.00	15.50	0.393
70	340/0.50	11.20	17.50	0.277

62930 IEC Anti-Mouse Ants Solar Cable

- Higher UV-stability
- Higher mechanical stability
- Higher insulation resistance
- Anti-rat and anti-termite.



Characteristics

Conductor:Tinned stranded copper

Insulation:XLPO,Optional color

Jacket:XLPO,Optional color

Voltage Rating:DC1500V

Reference Standard:
EN 50618 & IEC 62930

Temperature Rating:

Rated:-40°C to +90°C

Max.conductor temp:+120°C

Short circuit:+250°C

Testing Standard:

Smoke density test:Transmittance≥60% EN 50618

Cod bending test:-40°C±2°C no crack EN 60811-504

Cross Section (mm ²)	Conductor Construction (No./mm)	Insulation O.D. (mm)	Single core Cable O.D. (mm)	Twin core Cable O.D. (mm)	Conductor Resistance Max(Ω/km,20°C)
1.5	30/0.25	3.05	5.00	5.00*10.20	13.7
2.5	34/0.285	3.50	5.40	5.20*11.00	8.21
4.0	56/0.285	3.85	5.60	5.60*11.40	5.09
6.0	84/0.285	4.45	6.30	6.30*12.80	3.39
10	146/0.285	5.50	7.80	7.80*15.90	1.95
16	228/0.285	6.90	9.30	9.30*18.90	1.24
25	361/0.285	8.70	11.00	11.00*22.30	0.795
35	266/0.40	10.0	12.50	12.50*25.30	0.565

Armored Directly Buried Solar Cable

- Higher UV-stability
- Suitable for direct burial
- Higher mechanical stability
- Anti-rat and anti-termite.



Characteristics

Conductor:Tinned stranded copper

Rated Voltage:AC 600/1000V DC 1500V

Rated Temperature:-40°C to +90°C

Reference Standard:
IEC 62930:2017

Bending radius:≥12D

Max Conduct temperature:120°C

Fire test:IEC 60332-1

Cold bending test:EN 60811-1-4

Cross Section (mm ²)	Construction (No./mm)	DIA.(mm)	Steel strip thickness (mm)	Insulation Thickness(mm)	Jacket Thickness(mm)	Cable OD. (mm±0.2)
2×4	56/0.285	2.45	0.2	0.8	1.4	14
2×6	84/0.285	3.05	0.2	0.8	1.5	16
2×10	146/0.285	4.40	0.2	0.8	1.6	19

PACKING

Export packing schemes



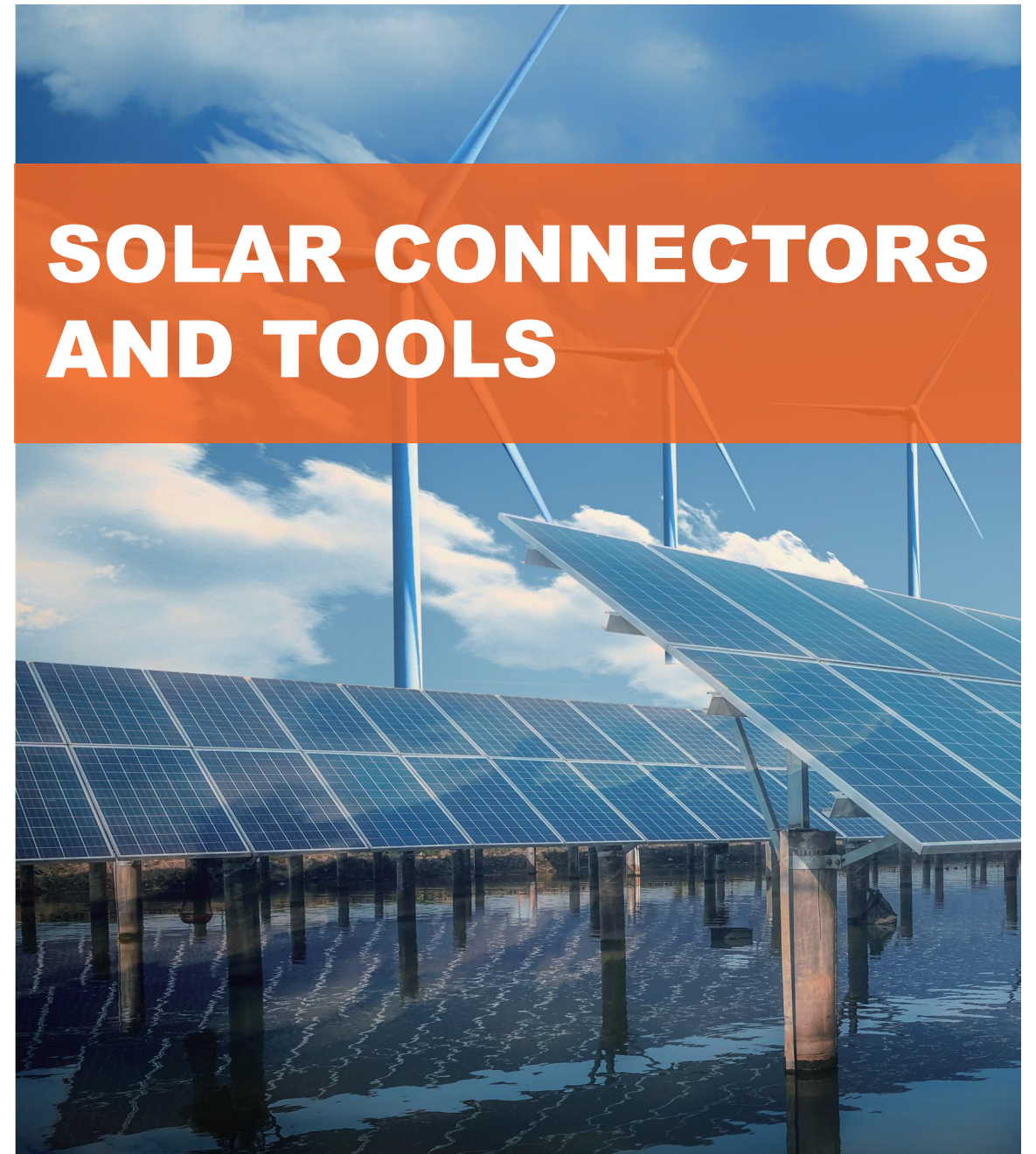
CONTAINER SIZE:20GP(5.89M*2.32M*2.31M)
CABLE SPECIFICATION:1*4MM²
PACKING MODE:WOODEN TRAY+ WOODEN DRUM 1000M/ROLL
LOADING CAPACITY:300000M



CONTAINER SIZE:20GP(5.89M*2.32M*2.31M)
CABLE SPECIFICATION:1*6MM²
PACKING MODE:WOODEN TRAY+ WOODEN DRUM 1000M/ROLL
LOADING CAPACITY:280000M



SOLAR CONNECTORS AND TOOLS





PV-BN101A

PV-BN101A

SY-CP4C



IP68



UV Resistance



UL94-V0



-40°C~85°C



Rated Voltage:1500V

Insulation material:PPO/PC

Rated Current-2.5mm²:30A (14AWG)

Rated Current-4mm²:35A (12AWG)

Rated Current-6mm²:40A (10AWG)

Rated Current-10mm²:50A (8AWG)

Test voltage:6KV(50Hz,1Min)

Fire Resistance:UL94-V0

Contact resistance:less than 0.35 mΩ

Degree of protection:IP68

Ambient temperature:-40°C up to +85°C

Certification:IEC62852 /UL6703

Carton Dimension (cm)	Pack list	QTY	Gross Weight (kg)
59cm × 39cm × 20cm	Male Housing	500 pcs	15kg
	Female Housing	500 pcs	
	Male terminal	500 pcs	
	Female terminal	500 pcs	
Remark: 500 pairs in one carton package			

T Branch Connector



SY-BB21-AB

SY-BB31-AB

SY-BB41-AB



IP68



UV Resistance



UL94-V0



-40°C~85°C



Rated Voltage:1500V

Insulation material:PPO/PC

Rated Current-2.5mm²:30A (14AWG)

Rated Current-4mm²:35A (12AWG)

Rated Current-6mm²:40A (10AWG)

Rated Current-10mm²:50A (8AWG)

Test voltage:6KV(50Hz,1Min)

Fire Resistance:UL94-V0

Contact resistance:less than 0.35 mΩ

Degree of protection:IP68

Ambient temperature:-40°C up to +85°C

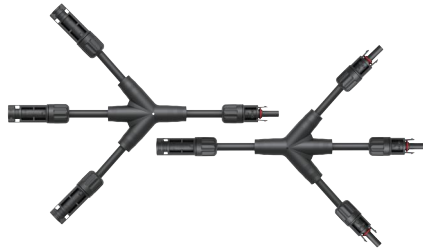
Certification:IEC62852 /UL6703

Carton Dimension (cm)	Pack list	QTY	Gross Weight (kg)
48cm × 37cm × 22cm	Solar Male Connector	200 pcs	21.7kg
	Solar Female Connector	200 pcs	
Remark: 200 pairs in one carton package			

Y Branch Connector



SY-BY21-AB



SY-BY31-AB



SY-BY41-AB



IP67



UV Resistance



UL94-V0



-40°C~85°C



Rated Voltage:1500V

Insulation material:PPO/PC

Rated Current-2.5mm²:30A (14AWG)

Rated Current-4mm²:35A (12AWG)

Rated Current-6mm²:40A (10AWG)

Fire Resistance:UL94-V0

Test voltage:6KV(50Hz,1Min)

Contact material:copper, tin-plated

Contact resistance:less than 0.35 mΩ

Degree of protection:IP67

Ambient temperature:-40°C up to +85°C

Certification:IEC62852 /UL6703

Carton Dimension (cm)	Pack list	QTY	Gross Weight (kg)
45cm × 35cm × 24cm	Solar male connector	100 pcs	28kg
	Solar female connector	100 pcs	
Remark: 100 pairs in one carton package			

PV Fuse & Diode Connector



LD6-Mini-1000



LD6-MAX-1500



LD-MD55A2000V-H



IP68



UV Resistance



UL94-V0



-40°C~85°C



Rated Voltage:1000~2000V

Insulation material:PPO/PC

Rated Current-2.5mm²:30A (14AWG)

Rated Current-4mm²:35A (12AWG)

Rated Current-6mm²:40A (10AWG)

Fire Resistance:UL94-V0

Test voltage:6KV(50Hz,1Min)

Contact material:copper, tin-plated

Contact resistance:less than 0.35 mΩ

Degree of protection:IP68

Ambient temperature:-40°C up to +85°C

Certification:IEC62852 /UL6703

Carton Dimension (cm)	Pack list	QTY	Gross Weight (kg)
45cm × 35cm × 25cm	Solar Diode Connector	500 pcs	31kg
	Solar Fuse Connector	500 pcs	
Remark: 500 pairs in one carton package			

LEADER
Junction Box



PV-BN223



PV-BN221



PV-BN221B



IP67



UV Resistance



UL94-V0



-40℃~85℃



Rated Voltage:1000V

Insulation material:PPO/PC

Rated Current:3~15A

Busbar connection:Welding

Degree of protection:Pouring sealant

Fire Resistance:UL94-V0

Rated Connecting Capacity:2.5~4mm²

Safety class:Class II

Glue quantity:7g

Degree of protection:IP67

Ambient temperature:-40℃ up to +85℃

Certification:IEC62852 /UL6703

Carton Dimension (cm)	Pack list	QTY	Gross Weight (kg)
48cm × 37cm × 22cm	Solar Junction Box	25set	31kg
Remark: 25 set in one carton package			

PV TOOLS



Crimping Pliers
SY-CT002



Wire Stripper Plier
SY-ST001



Cutting Tool
SY-CT003



Solar Connector Spanner
SY-THB510



Solar Tool Kit Box
SY-TB003



Solar Crimping Tool Kit
SY-TB006

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view the usage instructions



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Catalog

DC MCB 1A-63A



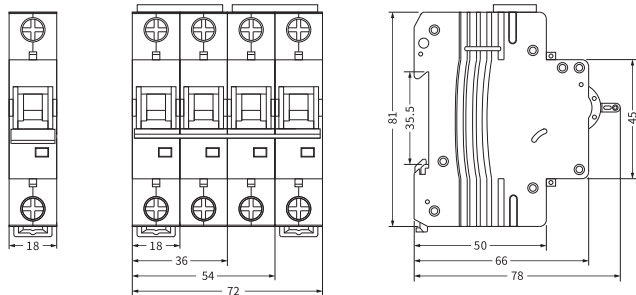
Mini Circuit Breaker ----- Standard_ IEC60947-2



Technical Data

Standard	IEC/EN60947-2
Protection	Overcurrent and short circuit
Type of trip	Thermo-magnetic
No.of poles	1P,2P,4P
Rated currents In	1,2,3,4,5,6,10,16,20,25,32,40,50,63A
Rated voltage Ue	1P(250VDC),2P(500VDC),4P(1000VDC)
Rated breaking capacity	6,000A
Rated impulse withstandard voltage(1.5/50) Uimp	4,000V
Dielectric test voltage at Ind. Freq.for 1 min	3kV
Thermal release characteristic	(1.05-1.30) x In
Magnetic release characteristic	(8-12) x In
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles
Contact position indicator	Yes
Protection degree	IP20
Ambient temperature	-5°C to +40°C Max.95%humidity
Terminal connection type	Cable/Pin-type busbar/Fork-type busbar
Max.terminal size for cable	25mm ²
Max.tightening torque	2.5N.m
Installation	Mounting on 35mm DIN rail
Connection	According to the wiring diagram

Overall and Installation Dimension(mm)



DC MCB 80A-125A



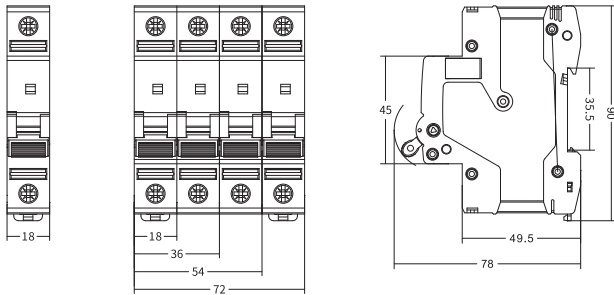
Mini Circuit Breaker ----- Standard_ IEC60947-2



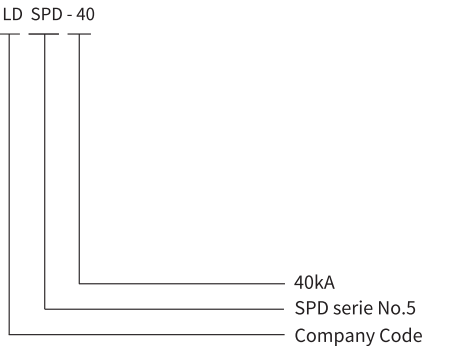
Technical Data

Standard	IEC/EN60947-2
Protection	Overcurrent and short circuit
Type of trip	Thermo-magnetic
No.of poles	1P,2P,4P
Rated currents In	80,100,125A
Rated voltage Ue	1P(250VDC),2P(500VDC),4P(1000VDC)
Rated breaking capacity	10,000A
Rated impulse withstandard voltage(1.5/50) Uimp	4,000V
Dielectric test voltage at Ind. Freq.for 1 min	3kV
Thermal release characteristic	(1.05-1.30) x In
Magnetic release characteristic	(8-12) x In
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles
Contact position indicator	Yes
Protection degree	IP20
Ambient temperature	-5°C to +40°C Max.95% humidity
Terminal connection type	Cable/Pin-type busbar/Fork-type busbar
Max.terminal size for cable	35mm ²
Max.tightening torque	2.5N.m
Installation	Mounting on 35mm DIN rail
Connection	According to the wiring diagram

Overall and Installation Dimension(mm)



Product Selection Guide



LDSPD-40kA
2P(600VDC)



LDSPD-40kA
2P(1000VDC)

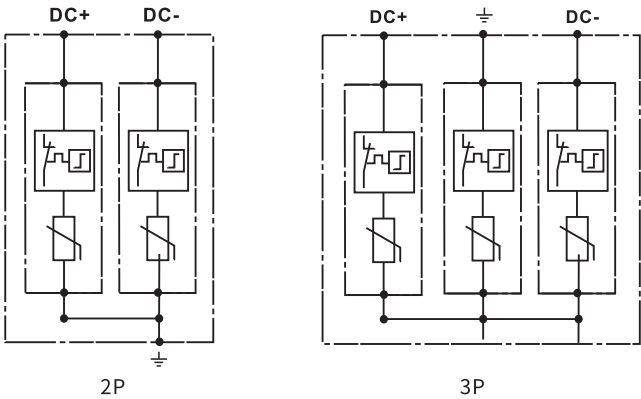


LDSPD-40kA
3P(1000VDC)



LDSPD-40kA
3P(1500VDC)

Basic circuit diagram



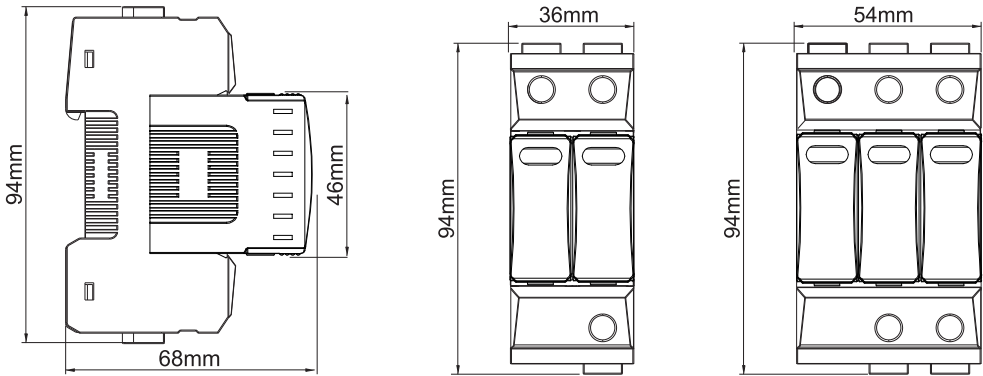
SPD Type Reference List

No. of Poles	Max. Continuous Operating DC Voltage		
	600VDC	1000VDC	1500VDC
2Module	LD-SPD2P-40KA-600	LD-SPD2P-40KA-1000	-
3Module	-	LD-SPD3P-40KA-1000	LD-SPD3P-40KA-1500
With Remote Signaling			
2Module	LD-SPD2P-40KA-600S	LD-SPD2P-40KA-1000S	-
3Module	-	LD-SPD3P-40KA-1000S	LD-SPD3P-40KA-1500S

Technical Data

SPD classification according to IEC/EN61643-31		T2	T2	T2
Max. continuous operating a.c.voltage	Ucpv	600VDC	1000VDC	1500VDC
Normal discharge current (8/20μs)	In	20kA	20kA	20kA
Maximum discharge current (8/20μs)	I _{max}	40kA	40kA	40kA
Voltage protection level DC+/DV-to PE	Up	2Mods ≤2.6kV	≤4.0kV	-
	3Mods	-	≤4.0kV	≤5.2kV
Response time	tA	≤25ns	≤25ns	≤25ns
Operating temperature range	Tu	-40°C~80°C		
Operating State/Fault Indication		Green/Red		
Cross-section area (Min.)		4mm ²		
Cross-section area (Max.)		35mm ²		
For mounting on		35mm Din rail		
Enclosure material		Thermal Plastic UL94-V0		
Degree of Protection		IP20		
No. of Mouldles		2P(2Mods),3P(3Mods)		

Overall and Installation Dimension(mm)



LD-SPD-40kA

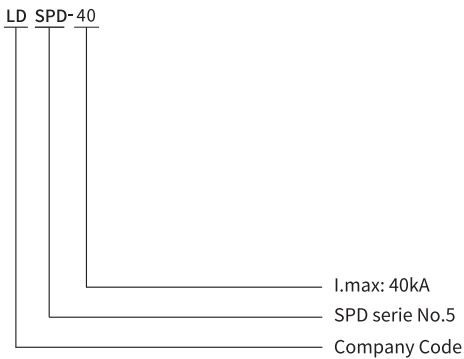


Standard_ IEC/EN61643-31



LDSPD-40
3P(1500VDC)

Product Selection Guide



Technical Data

SPD classification according to IEC/EN61643-31		T1+T2		
Max. continuous operating a.c.voltage	Ucpv	600VDC	1000VDC	1500VDC
Impulse Discharge Current (10/350 μs)	Iimp	6.25kA		
Total Discharge Current (10/350 μs)	ITotal	12.5kA		
Norminal discharge current (8/20μs)	In	20kA		
Maximum discharge current (8/20μs)	Imax	40kA		
Voltage protection level DC+/DV-to PE	Up	2000V	4000V	5200V
Response time	tA	≤25ns		
Operating temperature range	Tu	-40°C~80°C		
Operating State/Fault Indication		Green/Red		
Cross-section area (Min.)		4mm ²		
Cross-section area (Max.)		35mm ²		
For mounting on		35mm Din rail		
Enclosure material		Thermal Plastic UL94-V0		
Degree of Protection		IP20		
No. of Moudles		3P(3Mods)		

SPD Type Reference List

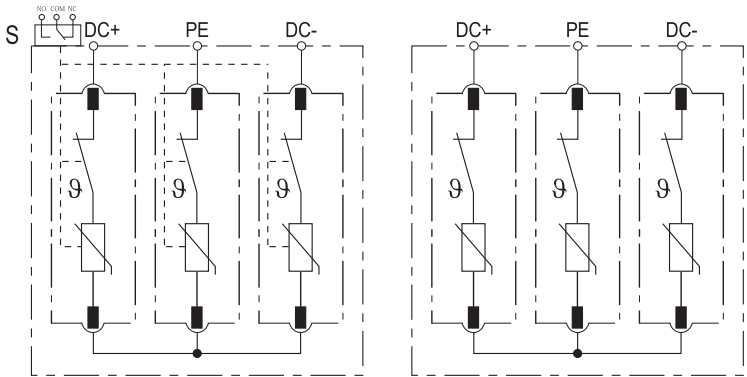
No. of Poles	Max. Continuous Operating DC Voltage		
	600VDC	1000VDC	
3Module	LD-SPD3P-40KA-600	LD-SPD3P-40KA-1000	LD-SPD3P-40KA-1500
With Remote Signaling			
3Module	LD-SPD3P-40KA-600S	LD-SPD3P-40KA-1000S	LD-SPD3P-40KA-1500S

LD-SPD-40kA

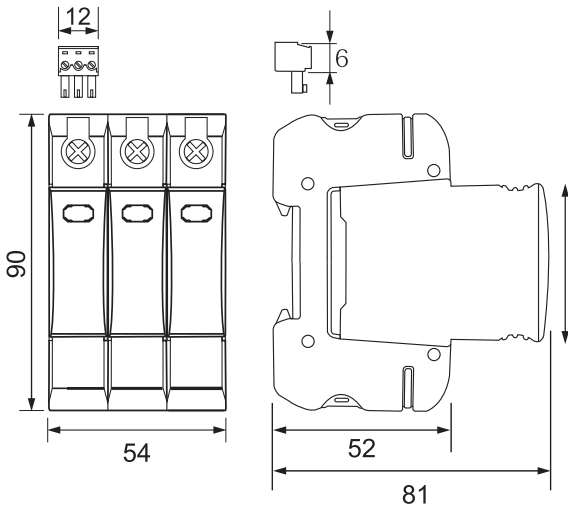


Standard_ IEC/EN61643-31

Basic circuit diagram



Overall and Installation Dimension(mm)



AC MCB 1A-63A

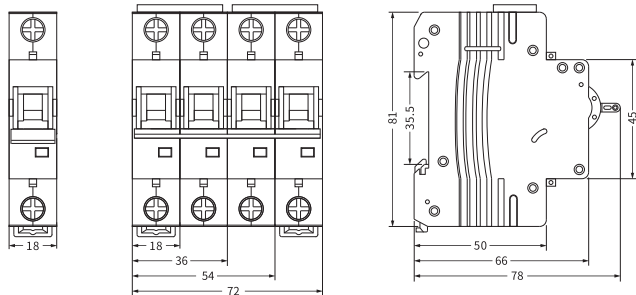


Standard_ IEC60947-2



Technical Data	
Standard	GB/T10963.1、IEC60898-1
No.of poles	1P、2P、3P、4P、1P+N、3P+N
Rated Currents (In)	1-63A
Rated Voltage (Ue)	240/415V~
Rated frequency	50/60Hz
Rated breaking capacity	4,500A
Rated impulse withstand voltage(1.5/50) Uimp	4,000A
Thermal release characteristic	(1.05-1.30)×In
Instantaneous tripping characteristics	B、C、D
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles
Protection degree	IP20
Ambient temperature	-5°C to +40°C Max.95%humidity
Terminal connection type	Cable/Pin-type busbar/Fork-type busbar
Max.terminal size for cable	25mm ²
Max.tightening torque	2.5N.m
Installation	Mounting on 35mm DIN rail

Overall and Installation Dimension(mm)



LD-AC-SPD

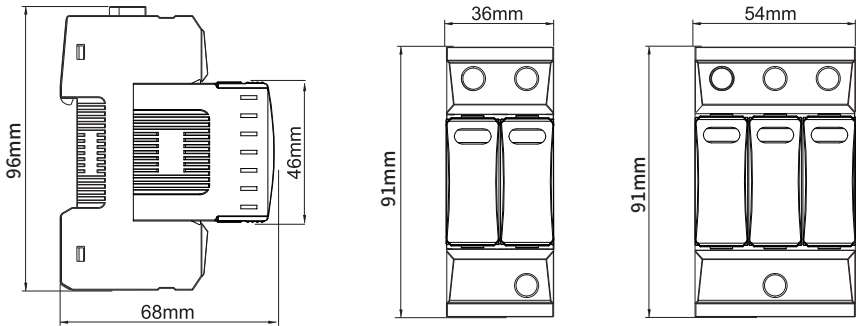


Standard_ IEC60947-2



Technical Data				
Model Type	LA-SPD-20KA	LA-SPD-40KA	LA-SPD-60KA	LA-SPD-80KA
Pole Number	1P/2P/3P/4P			
Maximum Continuous Operating Voltage (Uc)	175V/285V/385V	275V/385V	275V/385V	275V/385V
Rated discharge current (8/20ps) In	10kA	20kA	30kA	40kA
Maximum discharge current(8/20ps) Imax	20kA	40kA	60kA	80kA
Rated voltage (Un)	1P&2P:230V;3P&4P:230V/400V			
Number of discharges Lmax (No.)	1			
Number of discharges Ln (No.)	10			
Int. short circuit withstand current	10	25	25	25
Response time	<20ns			
Leakage current	<20uA			

Overall and Installation Dimension(mm)

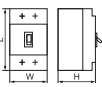


LMM1-PV DC MCCB



DC High Voltage Molded Case Circuit Breaker----- Standard_ IEC60947-1
IEC60947-2

Main Technical Parameter

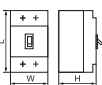
Appearance									
Model		LMM1-PV DC-250, LMM1-PV DC-320				LMM1-PV DC-400			
Rated current of shell frame grade Inm(A)		250, 320				400			
Rated current In(A)		63, 80, 100, 125, 140, 160,180, 200, 225, 250, 280, 315, 320				225, 250, 315, 350, 400			
Pole Number		2		3		2		3	
Rated working voltage Ue (V)DC		500	1000	1500		250/500	750/1000	1250/1500	1250/1500
Rated insulation voltage Ui (V)		1250		1500		1500			
Rated impulse withstand voltage Uimp (kV)		8		12		12			
Extreme short-circuit breaking capacity Icu (kA)	H Type	50	20	20		70	40	20	20 ^① , 40 ^②
	R Type	/	/	/		85	60	40	40 ^① , 50 ^②
Running short-circuit breaking capacity Ics (kA)		Ics=100%Icu							
Wiring mode		Up incoming and Down outcoming, Down incoming and Up outcoming (2P, 320/3P) Down incoming and Down outcoming, Up incoming and Up outcoming (3P)							
Mechanical life (Total times)		20000				10000			
Electrical life (Total times)		3000	2000	1500		1000	1000	700	500
Insolation feature		Yes							
Standard		IEC 60947-2, GB/T 14048.2							
Allowable ambient temperature		-40°C~+70°C							
Levels of protection		IP20							
Quality certificate		CB, TUV certificate							
With accessories		Auxiliary, alarm, Off load, Hand operation, Electric operation							
Arcing distance (mm)		≤50 (Zero arc, with arcing cover)							
Transient Action value		10In							
Overall dimensions LxWxH(mm)		L	180	180		250			250
		W	76	107		124			182
		H	126	126		165			165

Note: ① 2P connection in series
② 3P connection in series

LMM1-PV DC MCCB



DC High Voltage Molded Case Circuit Breaker----- Standard_ IEC60947-1
IEC60947-2

Appearance									
Model		LMM1-PV DC-630				LMM1-PV DC-800			
Rated current of shell frame grade Inm(A)		630				800			
Rated current In(A)		500, 630				700, 800			
Pole Number		2		3		2		3	
Rated working voltage Ue (V)DC		250/500	750/1000	1250/1500	1250/1500	250/500	750/1000	1250/1500	1250/1500
Rated insulation voltage Ui (V)		1500				1500			
Rated impulse withstand voltage Uimp (kV)		12				12			
Extreme short-circuit breaking capacity Icu (kA)	H Type	70	40	20	20 ^① , 40 ^②	70	40	20	20 ^① , 40 ^②
	R Type	85	60	40	40 ^① , 50 ^②	85	60	40	40 ^① , 50 ^②
Running short-circuit breaking capacity Ics (kA)		Ics=100%Icu							
Wiring mode		Up incoming and Down outcoming, Down incoming and Up outcoming (2P, 320/3P) Down incoming and Down outcoming, Up incoming and Up outcoming (3P)							
Mechanical life (Total times)		5000							
Electrical life (Total times)		1000	1000	700	500	1000	1000	700	500
Insolation feature		Yes							
Standard		IEC 60947-2, GB/T 14048.2							
Allowable ambient temperature		-40°C~+70°C							
Levels of protection		IP20							
Quality certificate		CB, TUV certificate							
With accessories		Auxiliary, alarm, off load, Hand operation, Electric operation							
Arcing distance (mm)		≤50 (Zero arc, with arcing cover)							
Transient Action value		10In							
Overall dimensions LxWxH(mm)		L	250	250		250			250
		W	124	182		124			182
		H	165	165		165			165

Note: ① 2P connection in series
② 3P connection in series

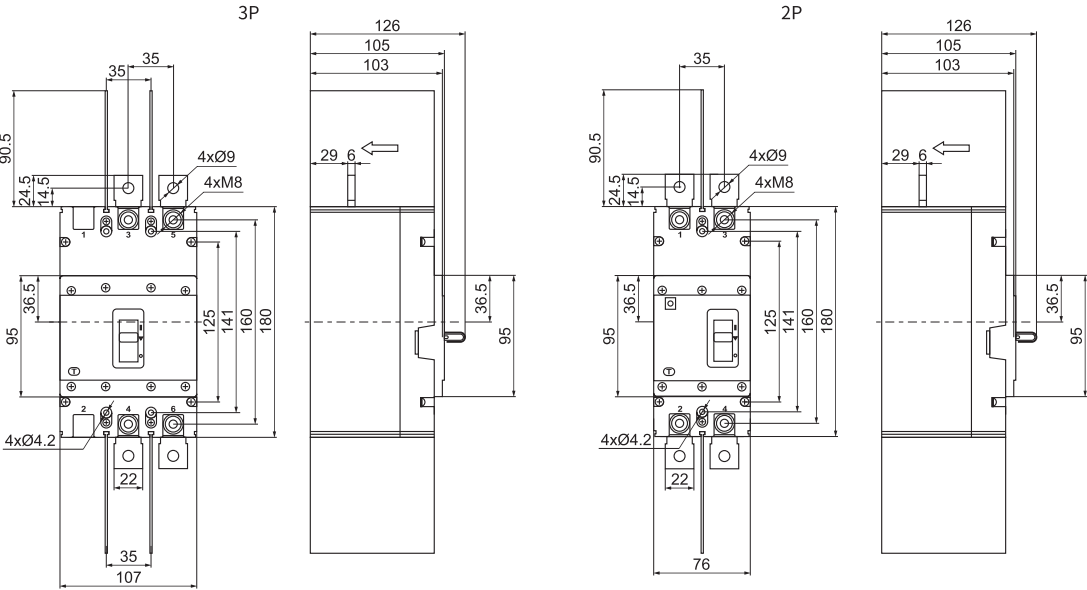
LMM1-PV DC MCCB



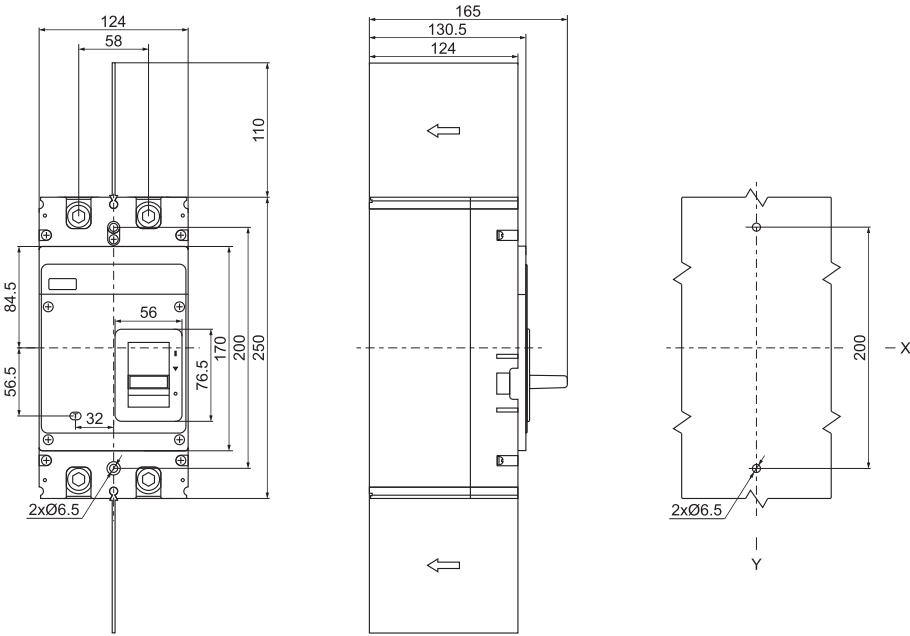
DC High Voltage Molded Case Circuit Breaker ----- Standard_ IEC60947-1
IEC60947-2

Outline and Installation Dimension Method and Its Overall Dimension

LMM1-PV DC-250/320 Outline and installation of hole opening dimensions



LMM1-PV DC-400/630/800 Outline and installation of hole opening dimensions (2P)

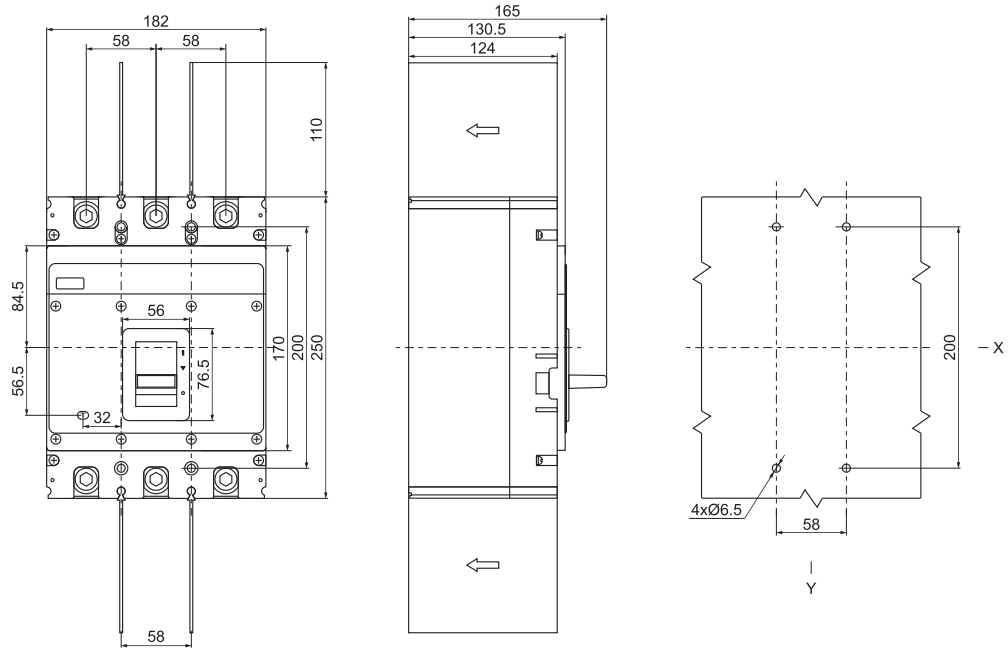


LMM1-PV DC MCCB



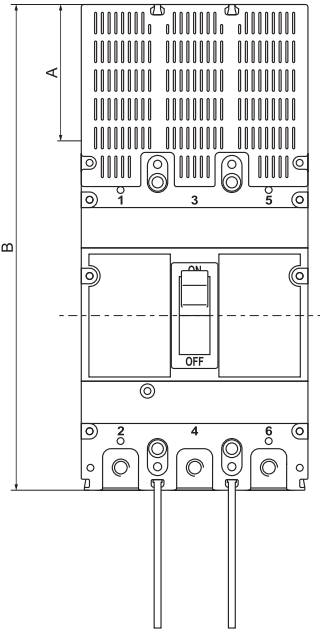
DC High Voltage Molded Case Circuit Breaker ----- Standard_ IEC60947-1
IEC60947-2

LMM1 DC-400/630/800 Outline and installation of hole opening dimensions (3P)



LMM1 with arc cover installation drawing

Circuit breaker	Arcing cover length: A	Total length: B
LMM1-320	64	245
LMM1-400/630/800	64	314

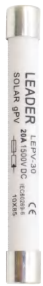


Technical Data

Model			
	PV0191-1P-A PV0191-1P		HDKDC1P32AL
Rated Voltage	1000VDC		1500VDC
Rated Current	32A		50A
Size of Fuse Link	10x38mm		14x85mm
Class of Operation	gPV		gPV
Mechanical Life	500		500
Product Width	18mm		22mm
Tightening Torque	2.5Nm 14In-lbs		2.5Nm 14In-lbs
Terminal size for Cable	6mm ² 8-18AWG		10mm ² 6-18AWG
Ambient temperature (with daily average≤35°C)	-5°C~+40°C		
Storage Temperature	-25°C~+70°C		
Standard:	IEC60269-6		
Mounting	On DIN rail EN60715(35mm) by means of fast clip device		

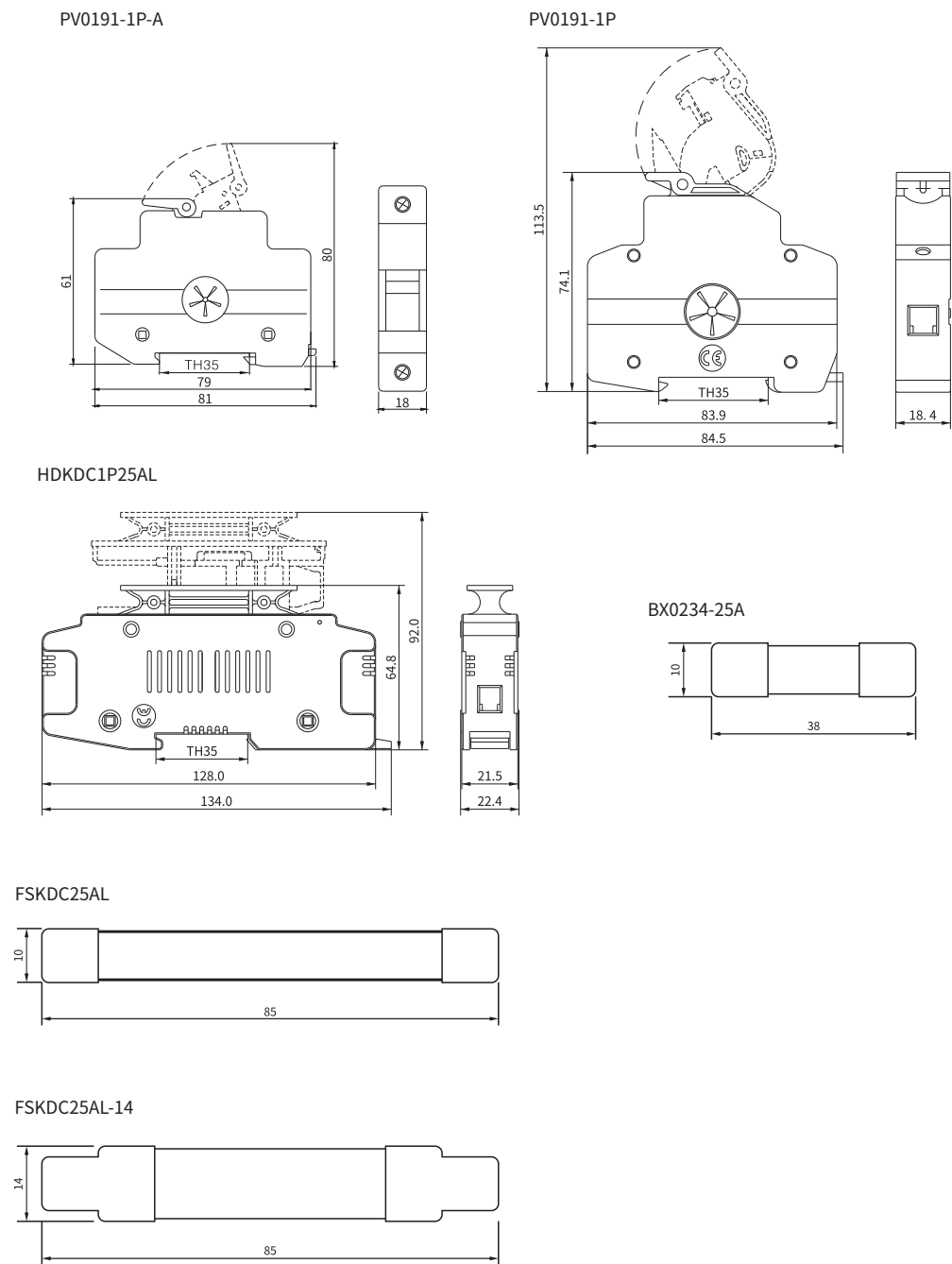
Reference No.	DC Voltage Grade	Size of Fuse Link	Current Rattng for Fuse Link
PV0191-1P-A	1000VDC	10x38mm	1,2,3,4,5,6,8,10,12,15,16,20,25,30,32A
PV0191-1P	1000VDC	10x38mm	1,2,3,4,5,6,8,10,12,15,16,20,25,30,32A
HDKDC1P32AL	1500VDC	14x85mm	8,10,12,15,16,20,25,30,32,35,40,45,50A

Technical Data

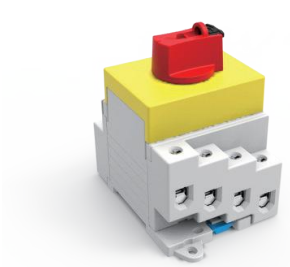
Model			
	BX0234-25A	FSKDC25AL	FSKDC25AL-14
Size	10x38mm	10x85mm	14x85mm
Rated Voltage	1000VDC	1500VDC	1500VDC
Rated Current	1-32A	2-32A	8-50A
Class of Operation	gPV	gPV	gPV
Breaking capacity	20KA	20KA	20KA
Standard:	IEC60269		

Current Rattng	Reference No. for Fuse Link		
	Voltage Grade and Size of Fuse Link		
	BX0234-25A	FSKDC25AL	FSKDC25AL-14
	1000VDC	1500VDC	1500VDC
	10x38mm	10x85mm	14x85mm
1A	BX0234-1A		
2A	BX0234-2A	FSKDC2AL	
3A	BX0234-3A	FSKDC3AL	
4A	BX0234-4A	FSKDC4AL	
5A	BX0234-5A	FSKDC5AL	
6A	BX0234-6A	FSKDC6AL	
8A	BX0234-8A	FSKDC8AL	FSKDC8AL-14
10A	BX0234-10A	FSKDC10AL	FSKDC10AL-14
12A	BX0234-12A	FSKDC12AL	FSKDC12AL-14
15A	BX0234-15A	FSKDC15AL	FSKDC15AL-14
16A	BX0234-16A	FSKDC16AL	FSKDC16AL-14
20A	BX0234-20A	FSKDC20AL	FSKDC20AL-14
25A	BX0234-25A	FSKDC25AL	FSKDC25AL-14
30A	BX0234-30A	FSKDC25AL	FSKDC30AL-14
32A	BX0234-32A	FSKDC32AL	FSKDC32AL-14
35A			FSKDC35AL-14
40A			FSKDC40AL-14
45A			FSKDC45AL-14
50A			FSKDC50AL-14

Overall and Installation Dimension(mm)



DC Isolator Switch



Description

Parallel wiring, larger aperture, much easier wiring.

Suitable for distribution box module with lock installation.

Arc extinction time less than 3ms.

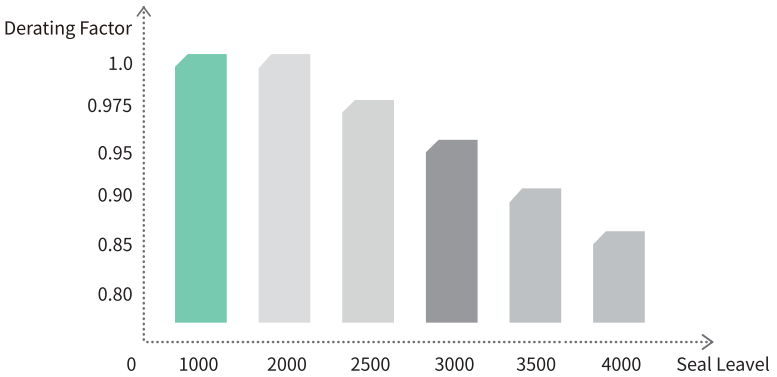
Modular design. 2 poles & 4poles optional.

Comply with IEC60947-3(ed.3.2):2015,DC-PV1standard.

Technical Data

Data according to IEC60947-3(ed.3.2):2015,GB14048.3. Utilization category DC-PV1/DC-PV2								Series	No.of Strings	Part Number	Contact Configuration
500V	600V	700V	800V	900V	1000V	1200V	1500V				
32	32	32	32	23	16	13	7	2	1	LD0191-2	
32	32	32	32	23	16	13	7	4	2	LD0191-4	
32	32	32	32	32	32	32	23	4	1	LD0191-4S	
32	32	32	32	32	32	32	23	4	1	LD0191-4B	
32	32	32	32	32	32	32	23	4	1	LD0191-4T	

Altitude Derating Curve



LD0191



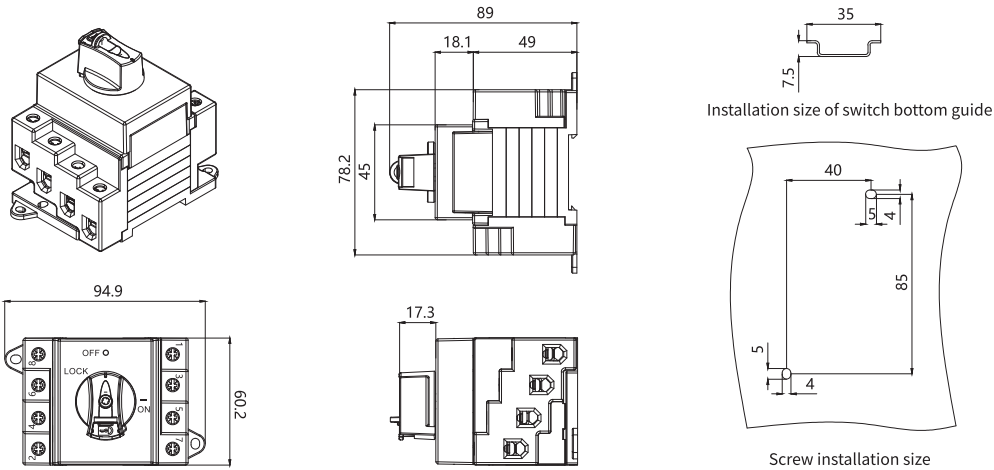
DC Isolator Switch ----- Standard_ IEC60947-3

Technical Data

Data according to IEC60947-3(ed.3.2):2015,UL508i,GB14048.3. Utilization category DC-PV1 / DC-PV2.

Main Parameters			LD0191
Rated insulation voltage	U _i	V	1500
Rated thermal current	I _{the}	A	32
Rated impulse withstand voltage	U _{imp}	V	8000
Rated short-circuit making capacity	I _{cm}	A	1000
Rated conditional short-circuit current	I _{cc}	A	5000
Max. fuse size	g _c (gG)	A	80
Maximum cable cross sections (incl. jumper)			
Solid or standard		mm ²	4-16
Flexible		mm ²	4-10
Flexible (+ multicore cable end)		mm ²	4-10
Torque			
Tightening torque terminal screws M4.		Nm	1.2-1.8
Tightening torque knob screws M3		Nm	0.5-0.7
Switching on or off torque		Nm	0.9-1.3
General parameters			
Method of mounting		Single Hole Mounting	
Type of knob			
Knob positions		OFF at 9 hr, ON at 12 hr	
Mechanical life		10000	
Number of DC poles		2 or 4	
Operation temperature		°C	-40 to +70
Storage temperature		°C	-40 to +85
Pollution degree		2	
Overvoltage category		III	
IP rating of shafte and mounting nut		IP66	

Overall and Installation Dimension(mm)



LDDSC100R-EL32R



Enclosed DC Isolator Switch ----- Standard_ IEC60947-3

Description

- IP66 box-type design:
- ♦ Screw fixing doesn't interfere with the sealing performance;
 - ♦ Multiple mechanical seals around the shaft guarantee the reliability of a waterproof and moisture-proof design;
 - ♦ Stainless steel rotary screw does not rust nor damp;
 - ♦ Standard cable interface available with seal rings;
 - ♦ Internal sealing in top and bottom covers, combined with 2 screws, guarantee an IP66 protection degree;

SAFE-LOCK with three rotational positions, reducing the risk of tampering.

The isolator is compatible with various cables: M25, M20, M16, and M12, and with optional waterproof cable joints and MC4 joints.

- Characteristics of the integration inside the on/of switch:
- ♦ Compact structure, with optional 2 or 4 DC poles;
 - ♦ Incorporating a user independent switching action, spring mechanism, to ensure a very fast break/make action, ensuring that the disconnection of the load circuits and suppression of the arc normally occurs within 5ms.
 - ♦ Self-cleaning contact mechanism, reducing power loss and abrasion, improving the conduction performance, reducing the resistance and energy loss of the switch, extending the on-off lifecycle.
 - ♦ Double arc extinguishing mechanism, magnetic and arc chutes, restrain the arc efficiency, especially DC arcs.

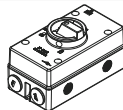
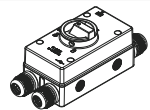
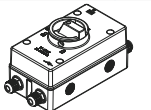
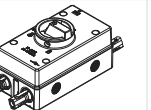
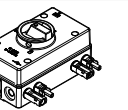


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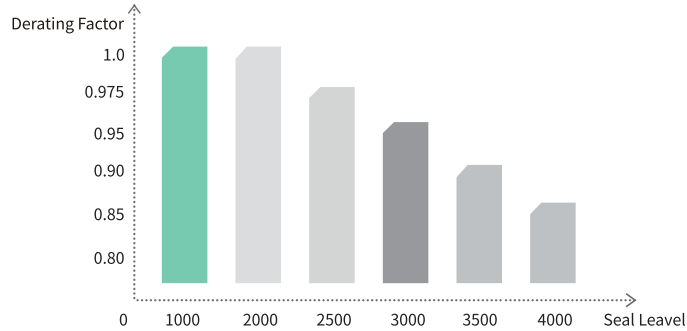
Data according to IEC60947-3(ed.3.2):2015,GB14048.3. Utilization category DC-PV1/DC-PV2								Series	No.of Strings	Part Number	Contact Configuration
500V	600V	700V	800V	900V	1000V	1200V	1500V				
32	32	32	32	23	16	13	7	2	1	LD0189-2	
32	32	32	32	23	16	13	7	4	2	LD0189-4	
32	32	32	32	32	32	32	23	4	1	LD0189-4S	
32	32	32	32	32	32	32	23	4	1	LD0189-4B	
32	32	32	32	32	32	32	23	4	1	LD0189-4T	

Technical Data

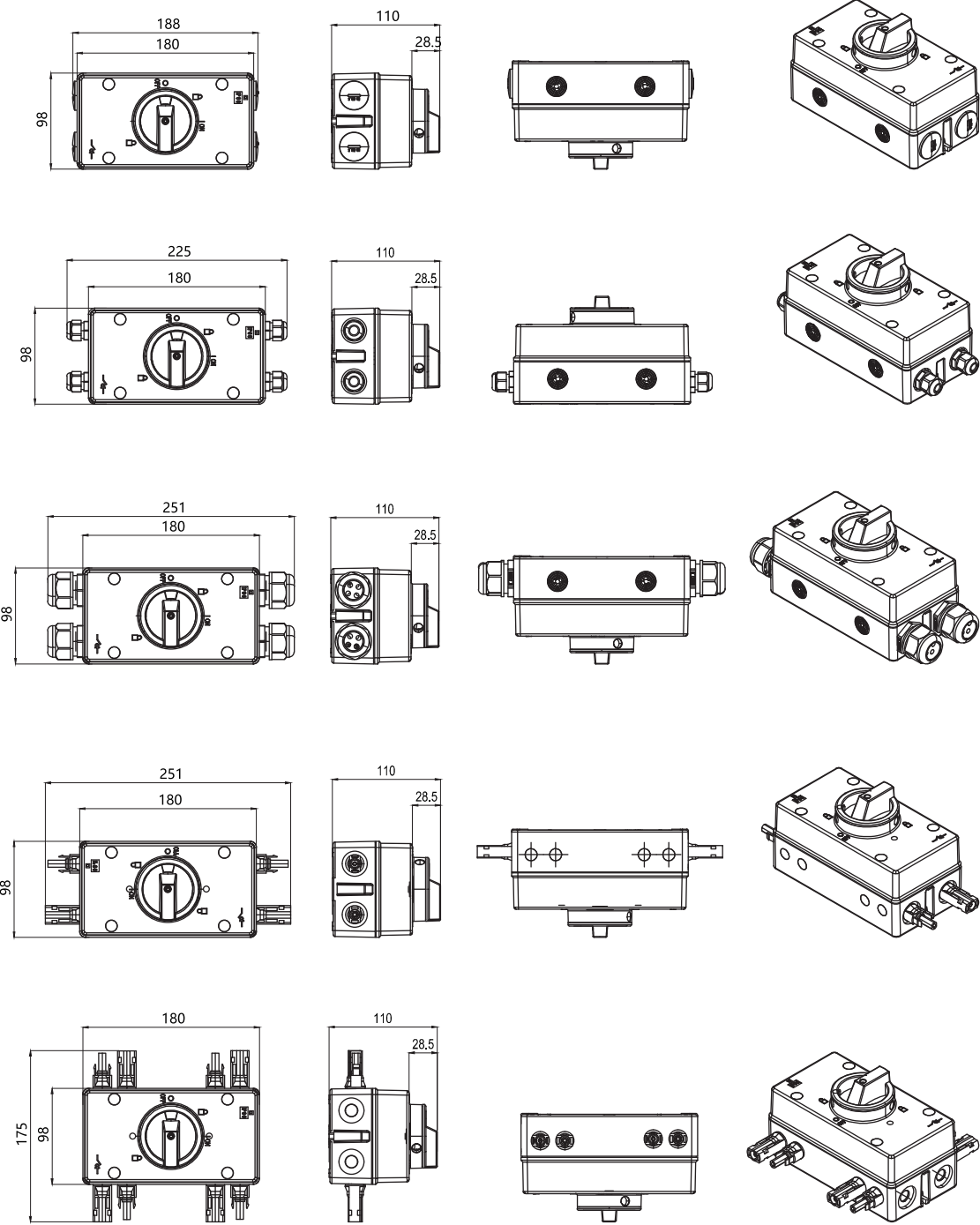
Data according to IEC60947-3(ed.3.2):2015,UL508i,GB14048.3. Utilization category DC-PV1 / DC-PV2.

Main Parameters			LD0189		
Rated insulation voltage	U_i	V	1500		
Rated thermal current	I_{the}	A	32		
Rated impulse withstand voltage	U_{imp}	V	8000		
Rated short-circuit making capacity	I_{cm}	A	1000		
Rated conditional short-circuit current	I_{cc}	A	5000		
Max. fuse size	$g_{L}(gG)$	A	80		
Maximum cable cross sections (incl. jumper)					
Solid or standard		mm ²	4-16		
Flexible		mm ²	4-10		
Flexible (+ multicore cable end)		mm ²	4-10		
Torque					
Tightening torque terminal screws M4.		Nm	1.2-1.8		
Tightening torque panel mounting screws ST4.2(304 stainless steel)		Nm	1.5-2.0		
Tightening torque knob screws M3		Nm	0.5-0.7		
Switching on or off torque		Nm	0.9-1.3		
General parameters					
Method of mounting		Wall-mounted or screw installation			
Type of knob					
Knob positions		OFF at 9 hr, ON at 12 hr			
Mechanical life		10000			
Number of DC poles		2 or 4			
Distance of contacts (per pole)		8			
Operation temperature		°C	-40 to +70		
Storage temperature		°C	-40 to +85		
Pollution degree		2			
Overvoltage category		III			
IP rating of shafte and mounting nut		IP66			
Types					
Specs	M25 Waterproof Cap	Cable Gland M25	Cable Gland M16	2MC4/H4(Optional)	4MC4/H4(Optional)
Independent Strings	1 or 2	1 or 2	1	1	1
Recommend Types	ALL	ALL	2/4S/4T/4B	2/4S/4T/4B	4

Altitude Derating Curve



Overall and Installation Dimension(mm)





Description

- Control device: built in controller
- Product structure: no power off, guide rail type, high current, small volume, two-stage typesimple structure, ATS integration
- Features: fast switching speed, low failure rate, convenient maintenance and reliable performance
- Wiring mode: front plate wiring
- Conversion mode: power grid to power grid, power grid to generator, photovoltaic to urbapower, automatic switching and self recovery
- Product frame:100
- Product current: 10,16,20,25,32,40,50,63, 80, 100A
- Product classification: direct load type
- Pole No.: 2, 3, 4
- Standard: GB/T14048.11
- A T S E: PC class
- Switching time: 0.008s/8ms

General

The dual power automatic switch is a newly developed miniature household power switch, which is mainly used to test whether the main power supply or standby power supply is normal. When the normal power supply is abnormal, the standby power supply starts to work immediately, which ensures the continuity, reliability and safety of power supply. This product is specially designed for household rail installation and is specially used for PZ30 distribution box.

The dual power automatic switch is suitable for emergency power supply systems with 50 or 60Hz and rated 400V AC. ATS has the characteristics of solid structure. reliable conversion, convenient installation and maintenance and long service life It is widely used in various occasions where power failure cannot be sustained, and can be operated by electricity or manually. ATS is composed of TSE and controller. According to GB/T14048.11, Part 6-1: multifunctional equipment and switchgear is formulated. It can be seen that ATS is the most qualified low-voltage switchgear and control device.

Normal operation time and installation conditions

- Ambient air temperature
The maximum temperature shall not exceed 40°C, the minimum temperature shall not be lower than -5°C, and the average temperature within 24 hours shall not be higher than 35°C.
- Altitude
The altitude of the installation site should not be higher than 2000m.
- Atmospheric conditions
When the maximum temperature reaches 40°C, the relative humidity of the installation site should not exceed 50%; when the temperature is the minimum temperature -5°C, the relative humidity is higher, for example, the temperature is 25°C and the relative humidity is 90%. Due to the temperature change, special measures should be taken to deal with the occasional condensation on the surface of the product.
- Pollution grade
The pollution grade of ATS conforms to grade 3 specified in GB/T14048.11.
- Installation category
The installation type of ATS conforms to the category specified in GB/T14048.1 1.
- Installation conditions
ATS can be installed vertically in control cabinet or distribution cabinet. Make sure the installation distance meets the requirements in Figure 1.

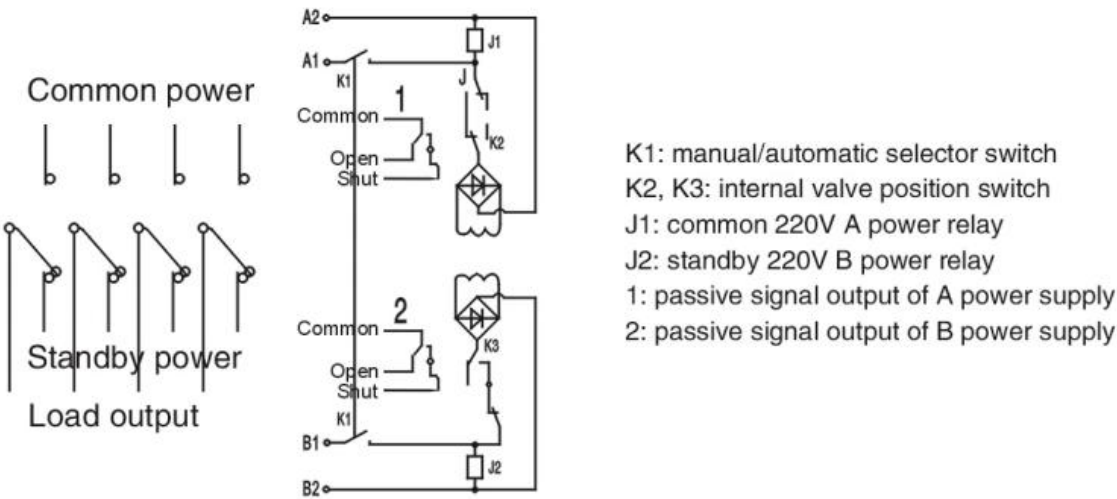
Main technical parameters

Specification	100A		
Rated curent Ie(A)	16, 20, 25	32,40, 50, 63	80,100
Insulation voltage Ui	AC690V, 50Hz		
Rated voltage Ue	AC400V,50Hz		
Classification	PC class: can be manufactured and withstood without short circuit current		
Utilization category	AC-33iB		AC-31B
Pole No.	2P	3P	4P
Weight(kg)	1.7	2.1	2.6
Electrical	Life:2000 times; Manual operation: 5000 times		
Rated short circuit current Iq	50kA		
Short circuit protection device (fuse)	RT16-00-63A		
Rated impulse withstand voltage	8kV		
Control circuit	Rated control voltage Us:AC220V/50Hz Normal working conditions: 85-110%Us		
Auxiliary circuit	2 relays, each with two sets of contact converter contact capacity: AC220V50Hz Ie=5y		
Conversion time of contactor	<50ms		
Operation conversion time	<50ms		
Return conversion time	<50ms		
Power off time	<50ms		

100 type wiring diagram

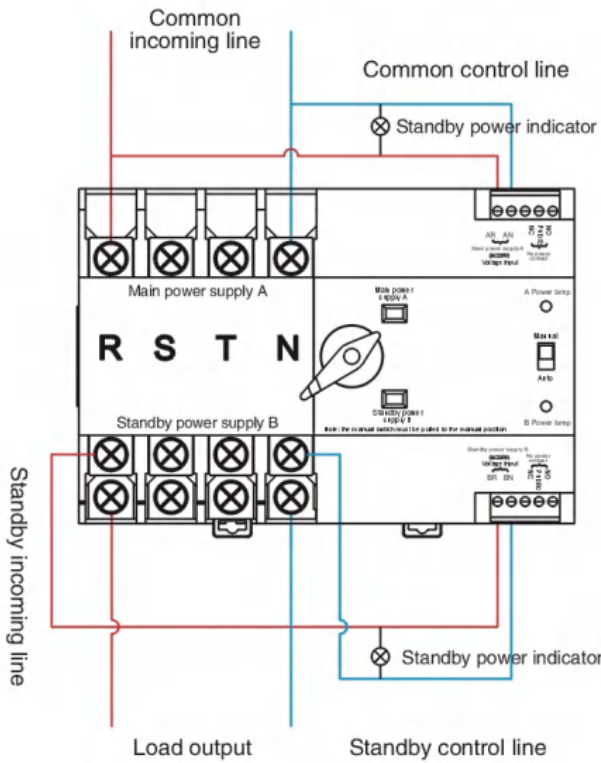
Internal wiring diagram

Fig.1



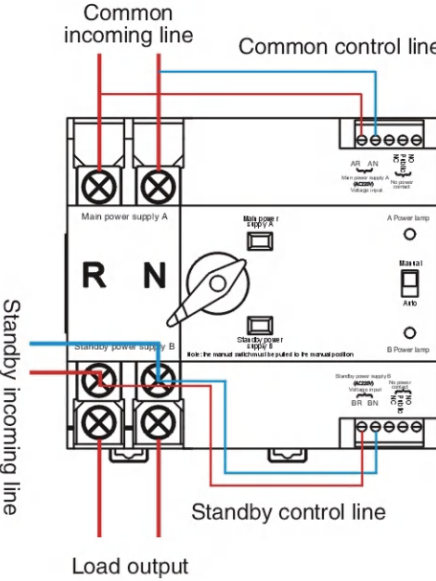
Controller wiring diagram

Fig.2



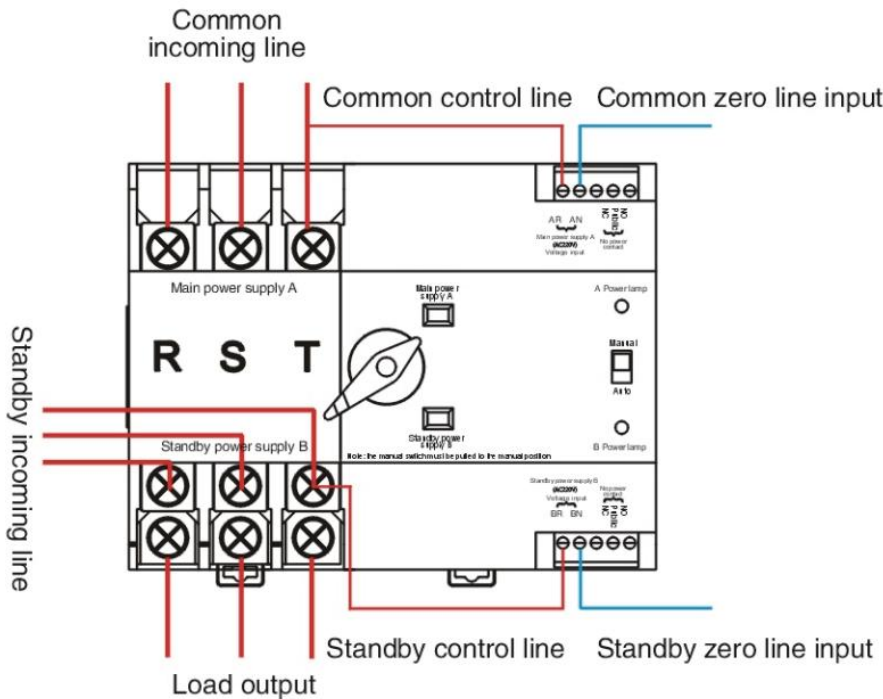
100/2P wiring diagram

Fig.3



100/3P wiring diagram

Fig.4



100/4P wiring diagram

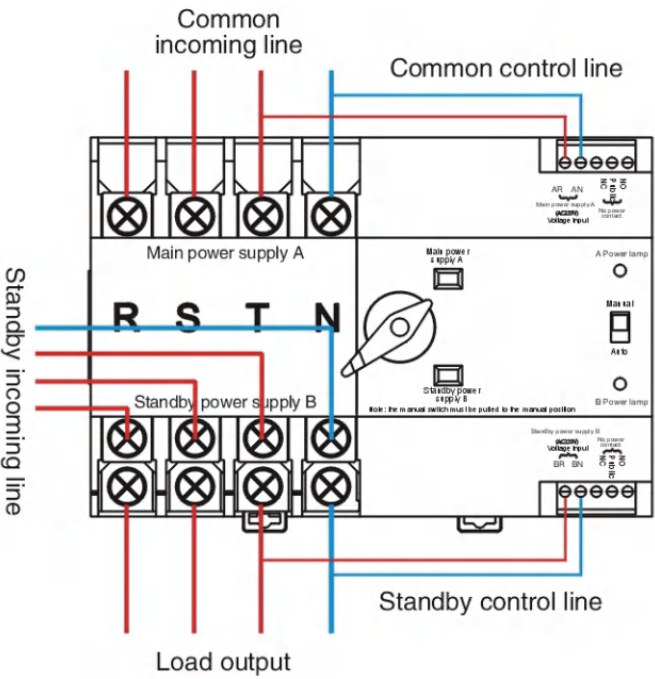


Fig.5

Timing switching connection mode

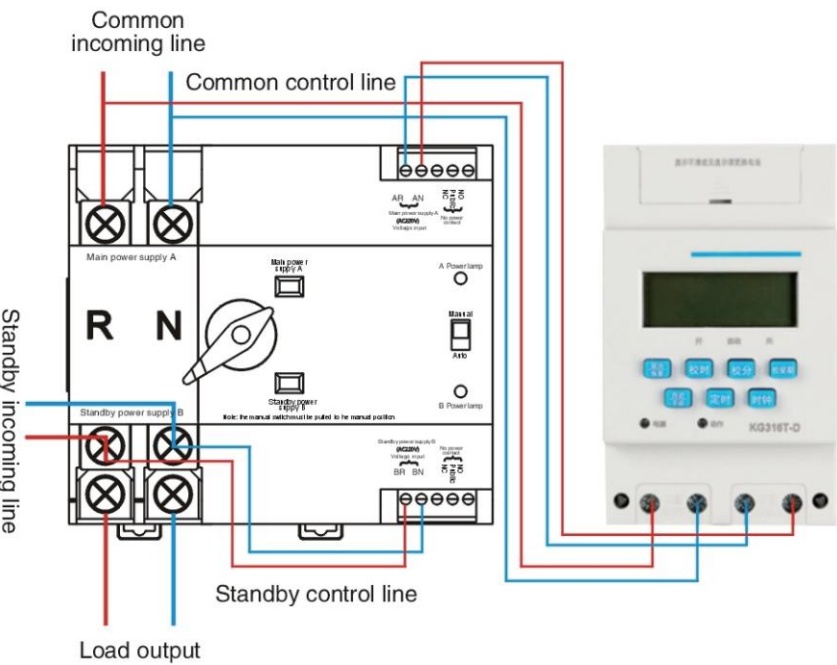


Fig.6

Special connection mode of photovoltaic inverter

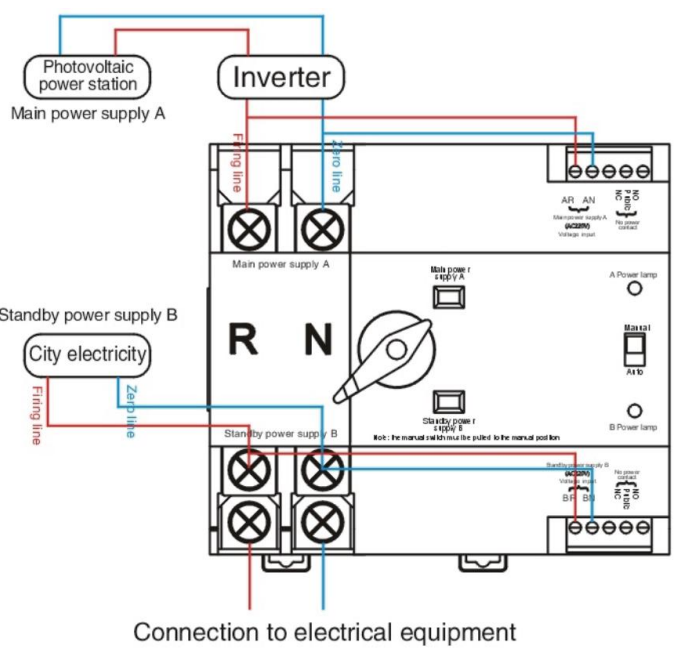


Fig.7

Overall and installation dimension of 100

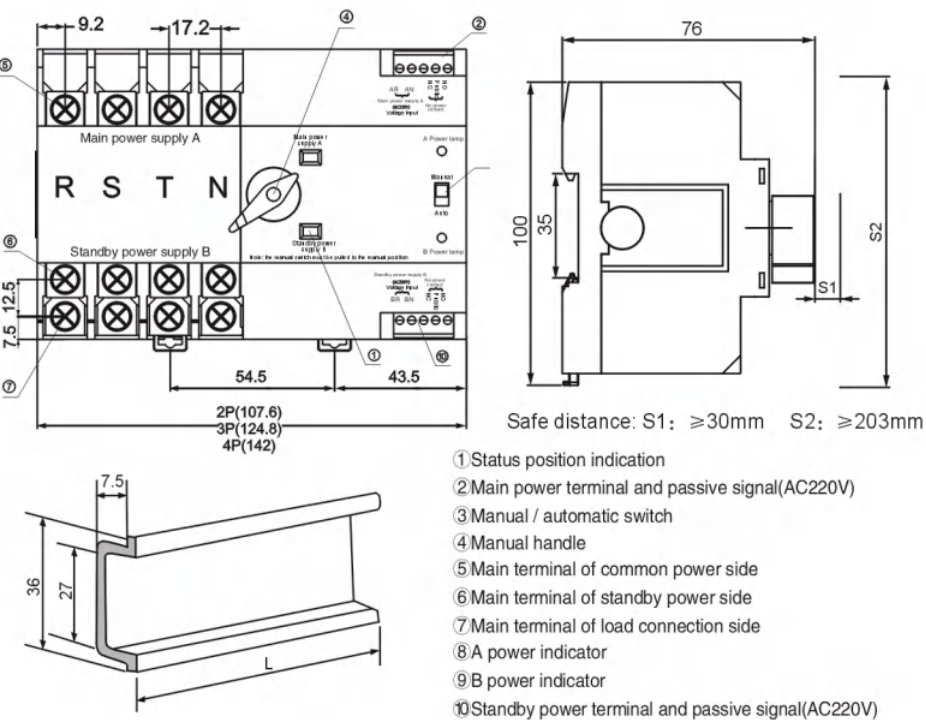
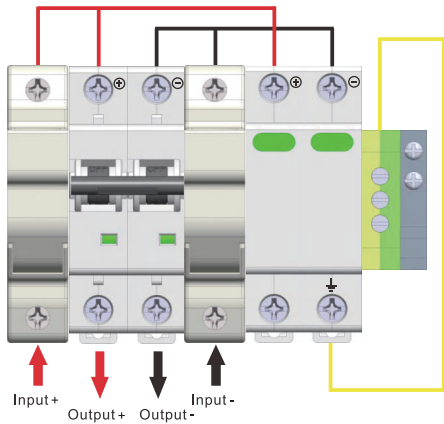
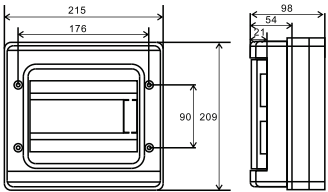


Fig.8



Overview

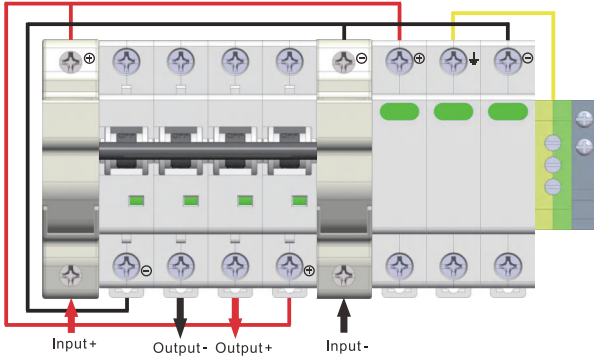
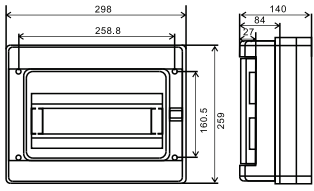
LEADER LDDB-PV series IP65 Solar DC combiner box is suitable for 500V or 1000V photovoltaic grid-connected and off-grid power generation systems. are equipped with DC circuit breakers or isolator, type 2 DC surge arrester and DC fuse to provide short circuit fault protection and lightning protection. Within enclosure, we pre-assemble reliable DC components to reduce installation cost and time. It makes your solar panel system connection easier.



1 String Input 1 String Output DC 500V

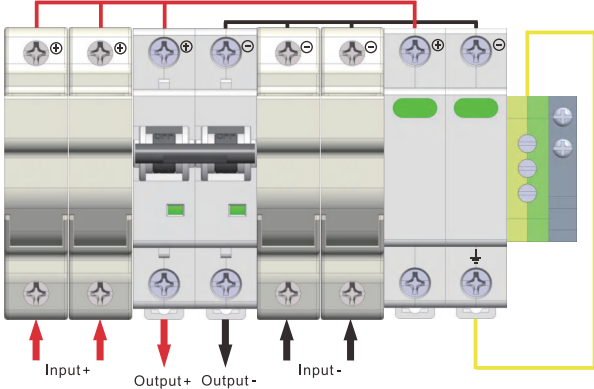
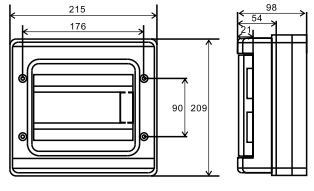
Type	LDDB-PV1/1-500-M	Quantity
Encloser of Box	HA-8 ways	1
DC SPD	LD-SPD2P-40KA	1
DC MCB	LDM7-2P-63	1
DC Fuse with Link	PV0191-1P/BX0234-15	2





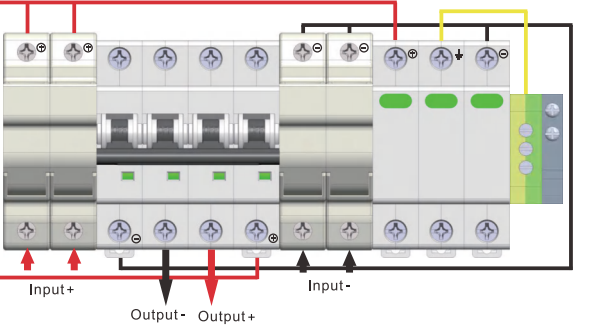
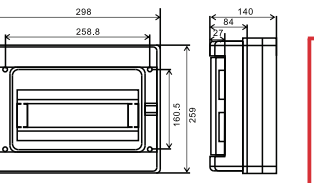
1 String Input 1 String Output DC 1000V

Type	LDDB-PV1/1-1000-M	Quantity
Encloser of Box	HA-12 ways	1
DC SPD	LD-SPD3P-40KA	1
DC MCB	LDM7-4P-63	1
DC Fuse with Link	PV0191-1P/BX0234-15	2



2 String Input 1 String Output DC 500V

Type	LDDB-PV2/1-500-M	Quantity
Encloser of Box	HA-8 ways	1
DC SPD	LD-SPD2P-40KA	1
DC MCB	LDM7-2P-63	1
DC Fuse with Link	PV0191-1P/BX0234-15	4

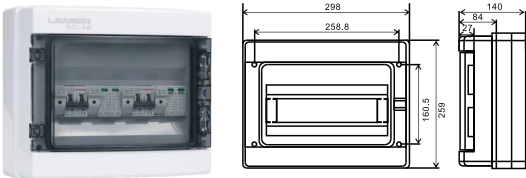


2 String Input 1 String Output DC 1000V

Type	LDDB-PV2/1-1000-M	Quantity
Encloser of Box	HA-12 ways	1
DC SPD	LD-SPD3P-40KA	1
DC MCB	LDM7-4P-63	1
DC Fuse with Link	PV0191-1P/BX0234-15	4

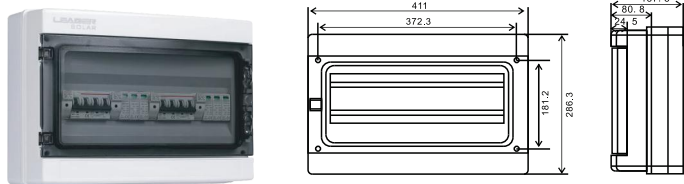
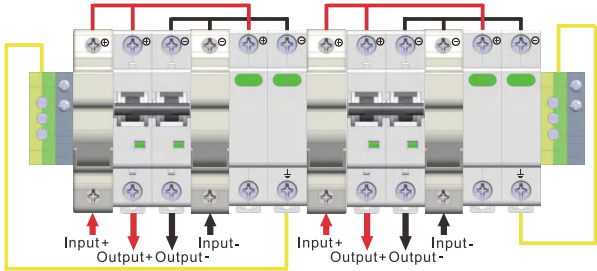
LDDBPV

Combiner Box



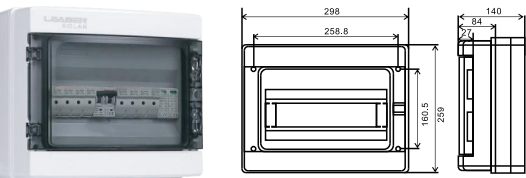
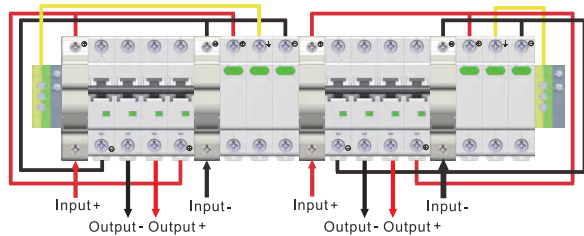
2 String Input 2 String Output DC 500V

Type	Lddb-PV2/2-500-M	Quantity
Enclosure of Box	HA-12 ways	1
DC SPD	LD-SPD2P-40KA	2
DC MCB	LDM7-2P-63	2
DC Fuse with Link	PV0191-1P/BX0234-15	4



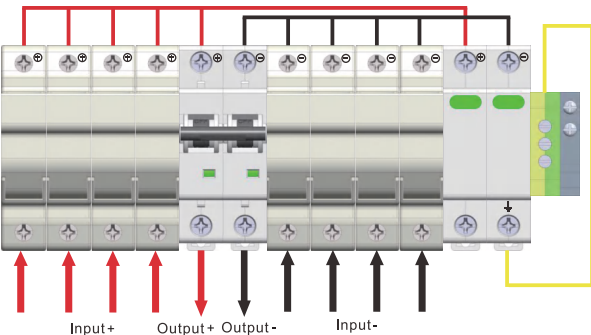
2 String Input 2 String Output DC 1000V

Type	Lddb-PV2/2-1000-M	Quantity
Enclosure of Box	HA-18 ways	1
DC SPD	LD-SPD3P-40KA	2
DC MCB	LDM7-4P-63	2
DC Fuse with Link	PV0191-1P/BX0234-15	4



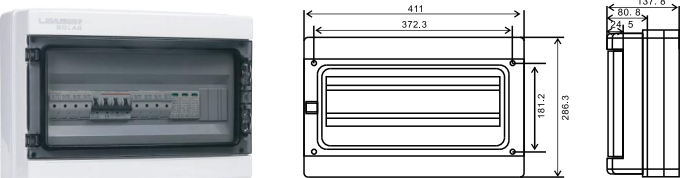
4 String Input 1 String Output DC 1000V

Type	Lddb-PV4/1-1000-M	Quantity
Enclosure of Box	HA-12 ways	1
DC SPD	LD-SPD2P-40KA	1
DC MCB	LDM7-2P-63	1
DC Fuse with Link	PV0191-1P/BX0234-15	8



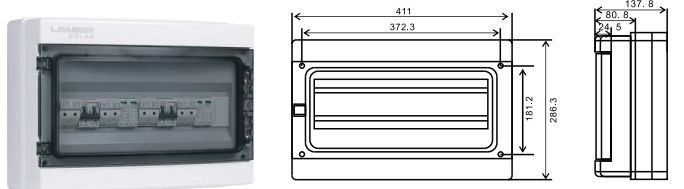
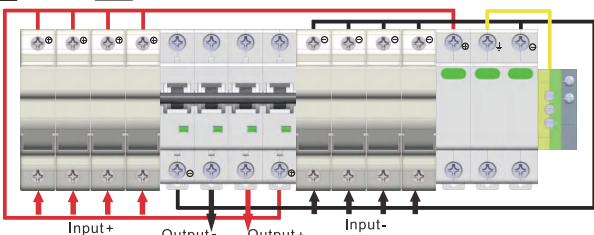
LDDBPV

Combiner Box



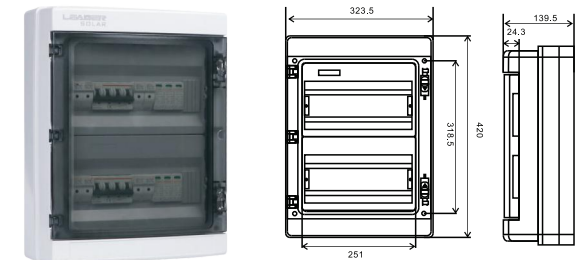
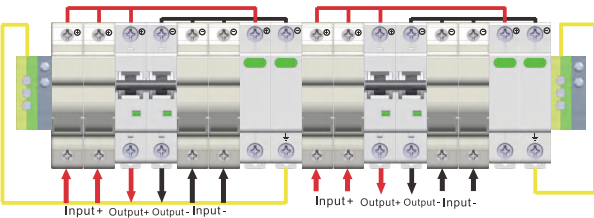
4 String Input 1 String Output DC 1000V

Type	Lddb-PV4/1-1000-M	Quantity
Enclosure of Box	HA-18 ways	1
DC SPD	LD-SPD3P-40KA	1
DC MCB	LDM7-4P-63	1
DC Fuse with Link	PV0191-1P/BX0234-15	8



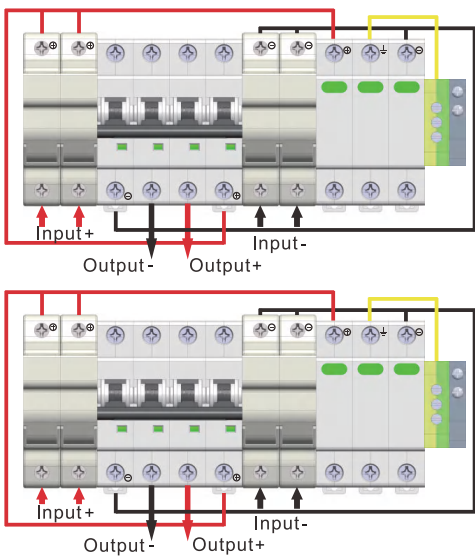
4 String Input 2 String Output DC 500V

Type	Lddb-PV4/2-500-M	Quantity
Enclosure of Box	HA-18 ways	1
DC SPD	LD-SPD2P-40KA	2
DC MCB	LDM7-2P-63	2
DC Fuse with Link	PV0191-1P/BX0234-15	8



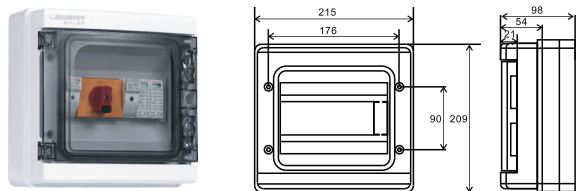
4 String Input 2 String Output DC 1000V

Type	Lddb-PV4/2-1000-M	Quantity
Enclosure of Box	HA-26 ways	1
DC SPD	LD-SPD3P-40KA	2
DC MCB	LDM7-4P-63	2
DC Fuse with Link	PV0191-1P/BX0234-15	8



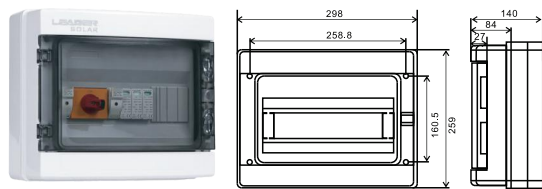
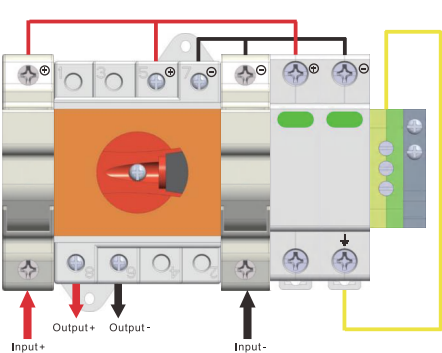
LDDBPV

Combiner Box



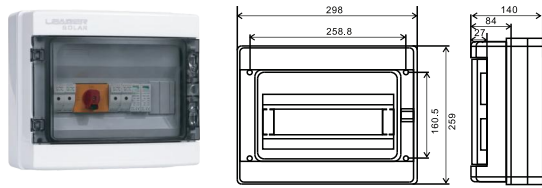
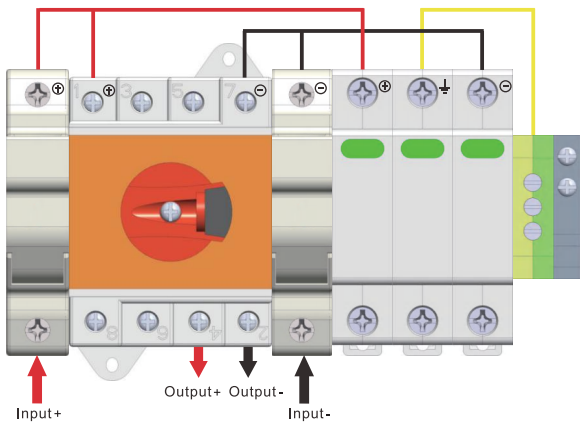
1 String Input 1 String Output DC 600V

Type	LDDB-PV1/1-600-I	Quantity
Enclosurer of Box	HA-8 ways	1
DC SPD	LD-SPD2P-40KA	1
DC Isolator	LD0191-YL-4P	1
DC Fuse with Link	PV0191-1P/BX0234-15	2



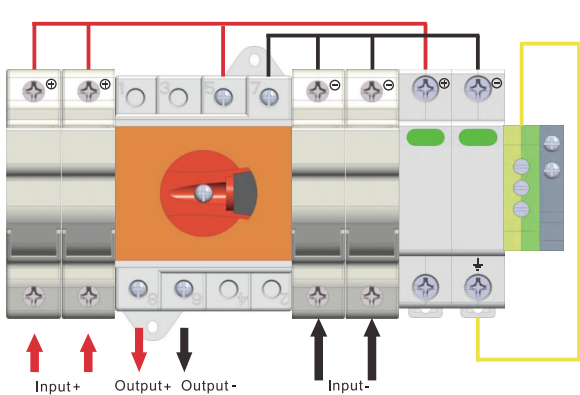
1 String Input 1 String Output DC 1000V

Type	LDDB-PV1/1-1000-I	Quantity
Enclosurer of Box	HA-12 ways	1
DC SPD	LD-SPD3P-40KA	1
DC Isolator	LD0191-YL-4P	1
DC Fuse with Link	PV0191-1P/BX0234-15	2



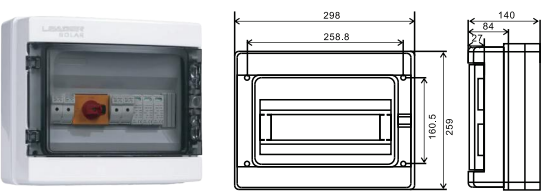
2 String Input 1 String Output DC 600V

Type	LDDB-PV2/1-600-I	Quantity
Enclosurer of Box	HA-12 ways	1
DC SPD	LD-SPD2P-40KA	1
DC Isolator	LD0191-YL-4P	1
DC Fuse with Link	PV0191-1P/BX0234-15	4



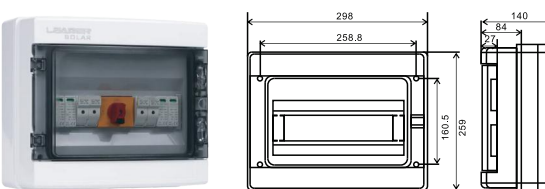
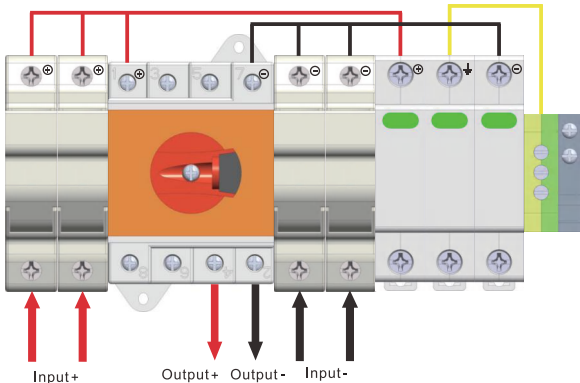
LDDBPV

Combiner Box



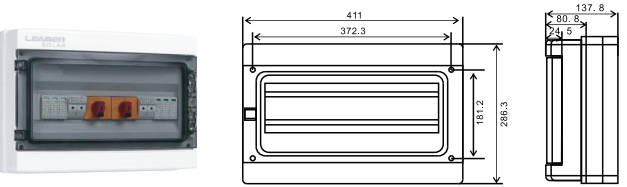
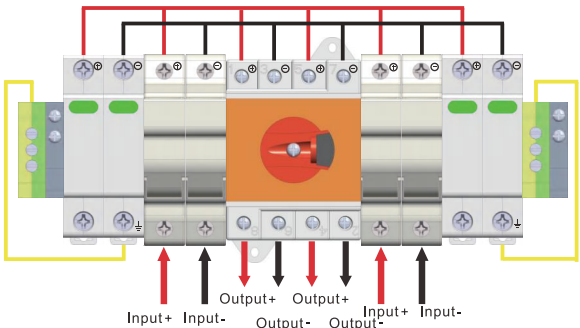
2 String Input 1 String Output DC 1000V

Type	LDDB-PV2/1-1000-I	Quantity
Enclosurer of Box	HA-12 ways	1
DC SPD	LD-SPD3P-40KA	1
DC Isolator	LD0191-YL-4P	1
DC Fuse with Link	PV0191-1P/BX0234-15	4



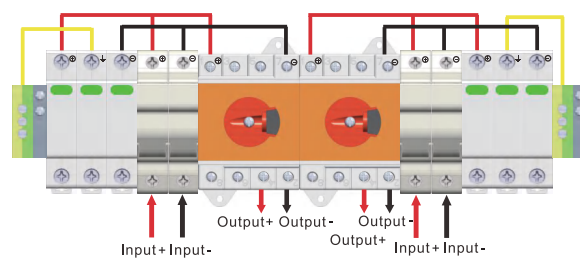
2 String Input 2 String Output DC 600V

Type	LDDB-PV2/2-600-I	Quantity
Enclosurer of Box	HA-12 ways	1
DC SPD	LD-SPD2P-40KA	2
DC Isolator	LD0191-YL-4P	1
DC Fuse with Link	PV0191-1P/BX0234-15	4



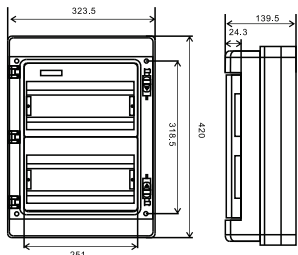
2 String Input 2 String Output DC 1000V

Type	LDDB-PV2/2-1000-I	Quantity
Enclosurer of Box	HA-18 ways	1
DC SPD	LD-SPD3P-40KA	2
DC Isolator	LD0191-YL-4P	2
DC Fuse with Link	PV0191-1P/BX0234-15	4



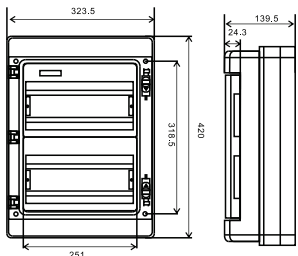
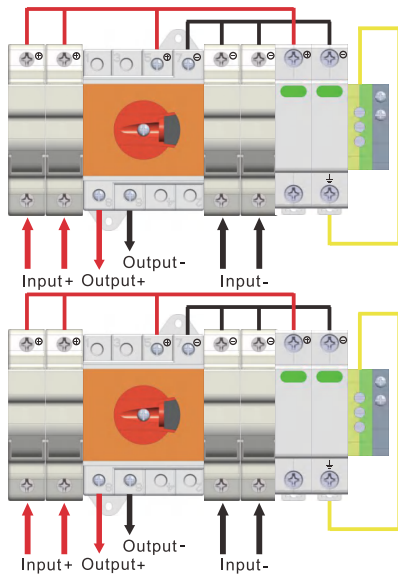
LDDBPV

Combiner Box



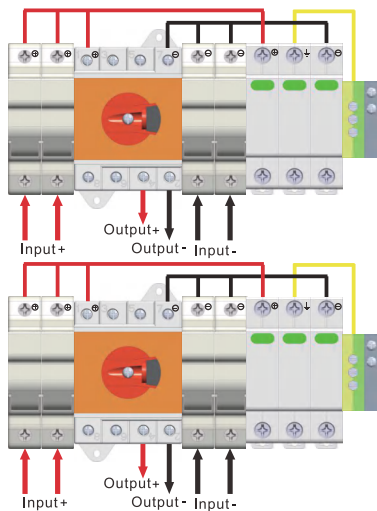
4 String Input 2 String Output DC 600V

Type	Lddb-PV4/2-600-I	Quantity
Enclosure of Box	HA-26 ways	1
DC SPD	LD-SPD2P-40KA	2
DC Isolator	LD0191-YL-4P	2
DC Fuse with Link	PV0191-1P/BX0234-15	8



4 String Input 2 String Output DC 1000V

Type	Lddb-PV4/2-1000-I	Quantity
Enclosure of Box	HA-26 ways	1
DC SPD	LD-SPD3P-40KA	2
DC Isolator	LD0191-YL-4P	2
DC Fuse with Link	PV0191-1P/BX0234-15	8



Lddb4

Distribution Box



Standard_ IEC62208



Description

The Distribution Box is used for Terminal power distributing system
The Distribution Box are completed with Din-rail 35mm and Neutral Terminal (Selectable)

Electrical Rating	100A/single phase,63A/three phase,240/415V AC 50/60Hz
Protection Degree	IP65
Material	Shell: ABS Door: Transparent PC
Installation Method	Surface-Mounted

Type of open door from right to left

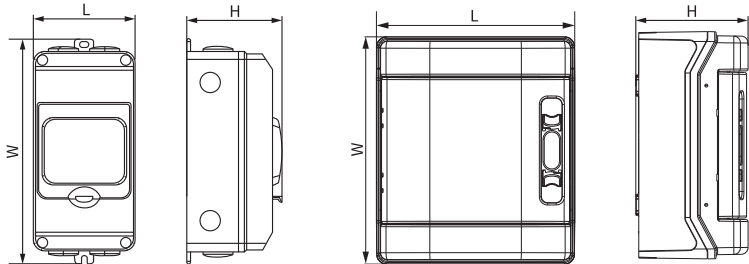
Without Neutral Terminal Model

Model No.		Ways	Dimension(mm)		
PC	Code		L	W	H
Lddb4P4R	604241	4	100	221	94
Lddb4P6R	604242	6	201	230	114
Lddb4P8R	604243	8	237	230	114
Lddb4P12R	604245	12	308	230	114
Lddb4P18R	604246	18	417	230	114
Lddb4P24R	604247	24(2x12)	309	391	114

With Neutral Terminal Model

Model No.		Ways	Dimension(mm)		
PC	Code		L	W	H
Lddb4P4RT	604211	4	100	221	94
Lddb4P6RT	604212	6	201	230	114
Lddb4P8RT	604213	8	237	230	114
Lddb4P12RT	604215	12	308	230	114
Lddb4P18RT	604216	18	417	230	114
Lddb4P24RT	604217	24(2x12)	309	391	114

Overall and Installation Dimension(mm)



Ways: 4



Description

- Suitable for PV system, equipped with a surge protector and an isolator, providing isolation, leakage and grounding protection.
- Enclosures are made of polycarbonate (PC-ABS) materials. IK08 high impact-resistance and light enough to easily carry. IP65 rating for outdoor installation, resisting UV radiation, water, dust, reducing corrosion.
- Through transparency cover, you can observe interior mechanism directly.
- Reliable components, with TUV, CE certificated, in accordance with IEC standard.
- IP65 cable connector. Waterproof cable connector & MC4 connector are optional.

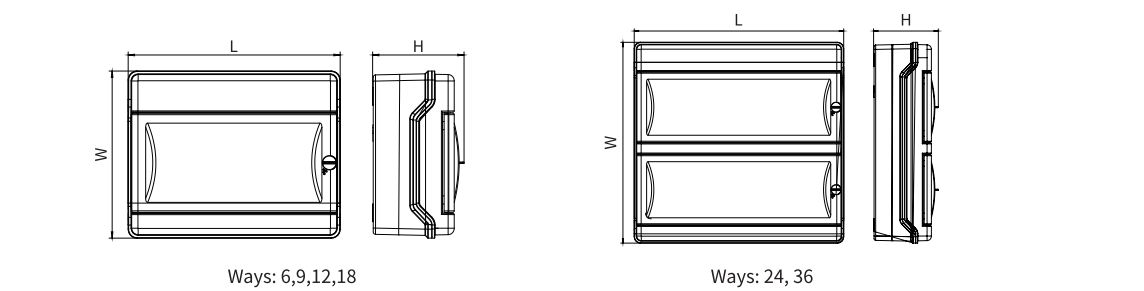
Type of open door from right to left

Product size



Model No.	Dimension(mm)		
	L	W	H
HA-4P	143	210	100
HA-8P	215	210	120
HA-12P	298	260	140
HA-18P	410	285	140
HA-24P	298	420	140
HA-36P	298	570	140

Overall and Installation Dimension(mm)





Product Function Introduction

- IP65 degree of protection
- Lock structure
- Reserved position for functional stickers
- Reserved for installation of anti-theft locks
- Circuit baffle structure
- Surface frame loose structure
- With knockout hole
- With copper terminal assemblies

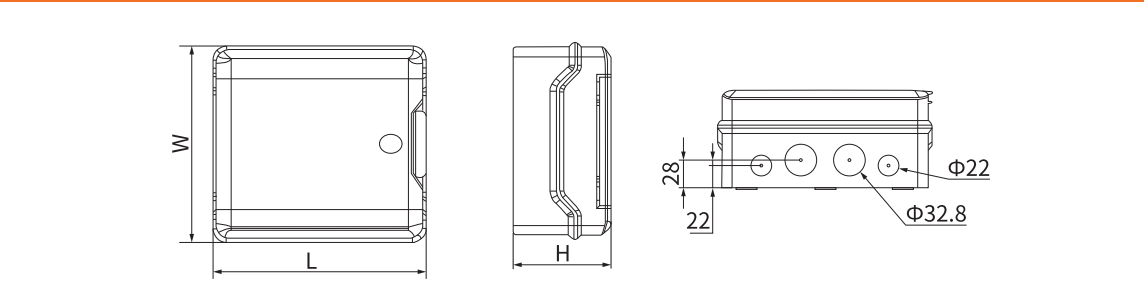
HT Series Surface-Mounted Waterproof Distribution Box Product Data Summary Table

Product size



Model No.	Dimension(mm)		
	L	W	H
HT-2P	120	55	95
HT-5P	159	119	90
HT-8P	155	201	90
HT-12P	198	255	108
HT-15P	198	309	108
HT-18P	198	363	108
HT-24P	273	354	108

Overall and Installation Dimension(mm)



AC-PG

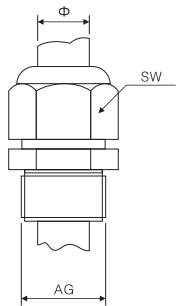


Waterproof Cable Gland



Technical Parameters	
Material	UL approved nylon PA66, nitrile rubber
Thread Specifications	Metric, PG, G, NPT
Operating temperature	Static -40°C ~ 100°C, instantaneous heat to 120°C, dynamic -20°C ~ 80°C, instantaneous heat to 100°C
Features	Special clamping claws and rubber parts design, clamping range, especially tensile strength, waterproof, dustproof, salt, acid, alcohol, grease and common solvents
Color Category	Black, gray, special colors (white, red, blue, dark gray) can be customized
Protection class	IP68

Specifications Model						
Model	Thread size (mm)	Hole size AG(mm)	Thread length (mm)	Wall thickness (mm)	Applicable cable Φ(mm)	Wrench size SW(mm)
PG7	12.5	Φ12.6-13	9	3	3.5-7	18/16
PG9	15.2	Φ15.3-15.5	9	3	4-9	22/19
PG11	18.6	Φ18.7-19	9	3	5-11	24/22
PG13.5	20.4	Φ20.5-21	9	4	6-12	27/24
PG16	22.5	Φ22.6-23	10	5	10-14	30/27
PG19	24	Φ24.2-24.5	10	5	12-15	30/28
PG21	28.3	Φ28.5-29	12	5	13-18	36/33
PG25	30	Φ30.2-30.5	12	6	16-21	37/35
PG29	37	Φ37.2-37.5	12	6	18-25	45/42
PG36	47	Φ47.3-48	17	7	22-32	58/52
PG42	54	Φ54.5-55	19	7	32-39	65/60
PG48	59.3	Φ60-61	19	7	37-44	70/69
PG63	71	Φ71.5-72	27	19	42-51	83/75



AC-M



Waterproof Cable Gland



Technical Parameters	
Material	UL approved nylon PA66, nitrile rubber
Thread Specifications	Metric, PG, G, NPT
Operating temperature	Static -40°C ~ 100°C, instantaneous heat to 120°C, dynamic -20°C ~ 80°C, instantaneous heat to 100°C
Features	Special clamping claws and rubber parts design, clamping range, especially tensile strength, waterproof, dustproof, salt, acid, alcohol, grease and common solvents
Color Category	Black, gray, special colors (white, red, blue, dark gray) can be customized
Protection class	IP68

Specifications Model						
Model	Thread size (mm)	Hole size AG(mm)	Thread length (mm)	Wall thickness (mm)	Applicable cable Φ(mm)	Wrench size SW(mm)
M12	M12×1.5	Φ12.2-12.5	9	3	3-7	18/16
M16	M16×1.5	Φ16.2-16.5	9	3	4-8	22/19
M18	M18×1.5	Φ18.2-18.5	9	3	5-10	24/22
M20	M20×1.5	Φ20.2-20.5	9	5	6-12	27/24
M22	M22×1.5	Φ22.2-22.5	10	5	10-14	30/27
M24	M24×1.5	Φ24.2-24.5	10	5	12-15	33/28
M25	M25×1.5	Φ25.2-25.5	10	5	13-15	33/28
M25	M25×1.5	Φ25.2-25.5	12	5	13-18	33/30
M27	M27×1.5	Φ27.2-27.5	12	5	13-18	35/33
M30	M30×1.5	Φ30.2-30.5	12	6	16-21	37/37
M32	M32×1.5	Φ32.2-32.5	12	6	16-21	39/35
M36	M36×1.5	Φ36.2-37	12	6	18-25	45/42
M40	M40×1.5	Φ40.2-41	17	7	20-26	52/52
M50	M50×1.5	Φ50.5-51	19	10	32-39	60/60
M63	M63×1.5	Φ63.5-64	19	10	37-44	74/69
M72	M72×1.5	Φ72.5-73	27	15	42-52	83/77

