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LEADER -Cable

Leader specializing in R&D, manufacturing and marketing PV connectors, solar cable, PV junction boxes and PV assemblies etc.

专业从事研发、制造和销售光伏连接器、光伏线缆、光伏接线盒和PV组件等。

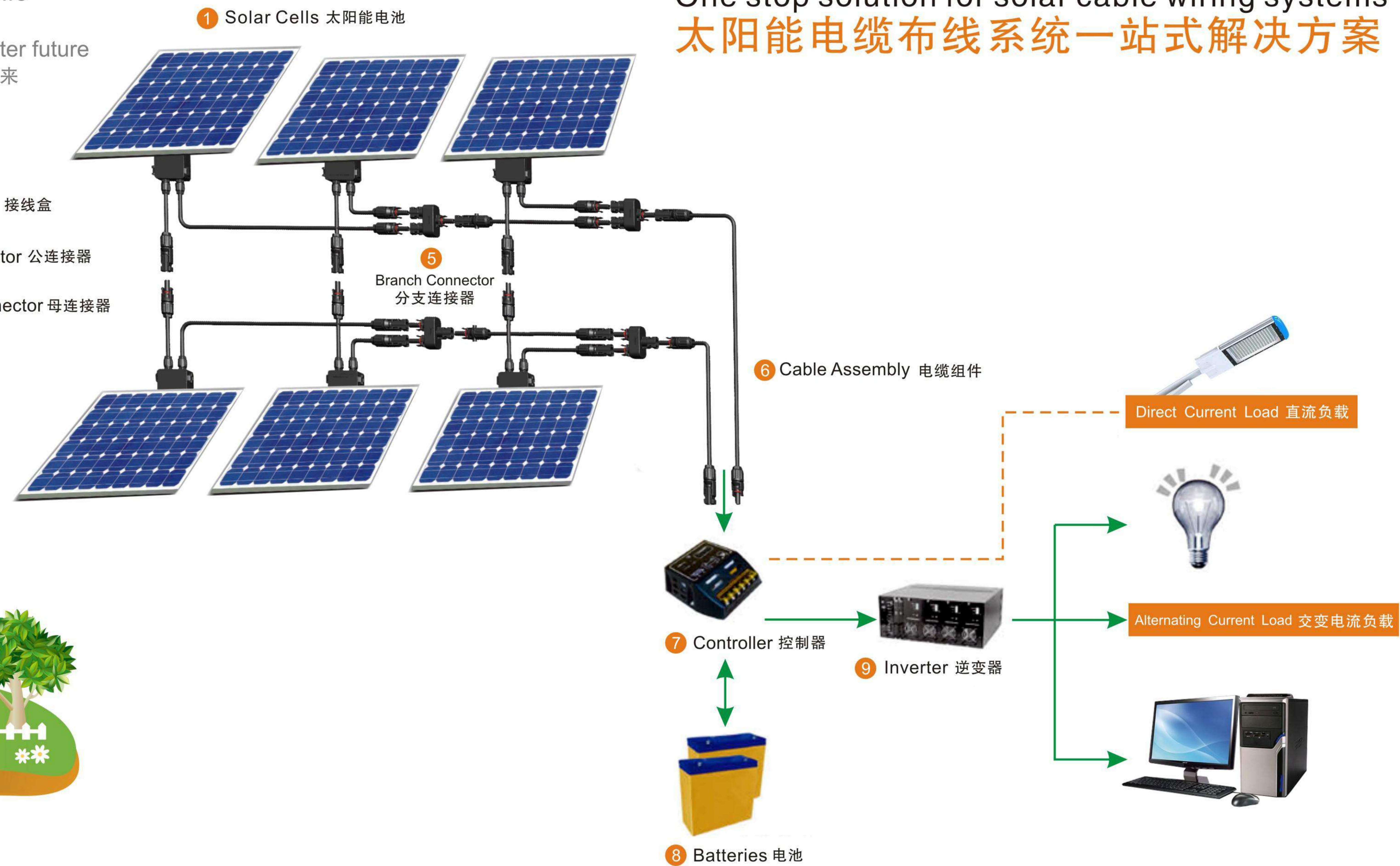
LEADER TECHNOLOGY(SHENZHEN)CO.,LIMITED

中国·东莞
Dongguan, China



Low-carbon life
低碳寿命
Creating a better future
创造更美好的未来

- 2 Junction Box 接线盒
- 3 Male Connector 公连接器
- 4 Female Connector 母连接器



One stop solution for solar cable wiring systems
太阳能电缆布线系统一站式解决方案



LEADER TECHNOLOGY(SHENZHEN)CO.,LIMITED
广东绿德线缆有限公司



Quality assurance

Our products have been authorized by TUV Rhineland,UL,CE successfully.
我们的产品已成功获得莱茵TUV、UL、CE认证。



About LEADER

绿德光伏有限公司是一家新能源企业，位于中国东莞市长安镇，专业研发、制造和销售光伏连接器、光伏线缆、光伏接线盒和光伏组件等，集太阳能组件太阳能电器到太阳能发电系统的通离网综合利用，产品研发模具设计和开发生产为一体，销售直通车服务。凭借先进的技术，我们的产品已成功获得德国莱茵TUV、UL、CE认证。

LEADER Technology(Shenzhen)co.,Limited.is a new energy enterprise,locatedin Chang'an town,Dong-guan city, China specializing in R&Dmanufacturing and marketing PV connectors solar cable,PV junction boxes and PV assemblies etc.,with an integrated utilizationfrom solar modules,solar energy appliance to on/off-grid solar power generation systems, and by the products R&Dmold design and development production,sales through-train service. With the advanced technology,our products have been authorized by TUV Rhineland,UL,CE successfully.

LEADER坚持自主研发，严格的检测标准和完善的检测体系，现代化的管理手段和优秀的人才队伍，秉承“为卓越而生存，为创新而发展”的信念，坚持专业化、规模化、国际化，致力于使LEADER成为一流品牌。

LEADER Technology(Shenzhen)co.,Limited.is a new energy enterprise,located in Chang'an town,Dong-guan city, China specializing in R&Dmanufacturing and marketing PV connectors PV junction boxes and PV assemblies etc.,with an integrated utilization from solar modules,solar energy appliance to on/off-grid solar power generation systems, and by the products R&D,mold design and development production,sales through-train service. With the advanced technology,our products have been authorized by TUV Rhineland,UL,CE successfully.

Customer Satisfaction 客户满意度

Quality Foremost 质量第一

Technology Innovation 技术创新

Win-Win Situation 合作双赢



LEADER-CABLE Approvals

TUV Approved EU EN50618 Standard Solar Cable

Application 应用

Suitable for nominal DC voltage 1.5KV (Betweenconductor to conductor or conductor to earth)solar power system.
适用于标称直流电压1.5KV(导体与导体之间或导体对地)太阳能发电系统

Construction 结构

Conductor: Tinned copper,electrical property & Structure in accordance with EN60228 Class 5
Insulation: LSZH electron-beam cross-linked polyolefin copolymer ROHS material, prior color black or as per customers request.
Outer sheath: LSZH & U-resistant electron-beam cross-linked Polyolefin copolymer ROH Smaterial, prior color black or as per customer's request.

导 体: 镀锡铜, 电气性能和结构符合EN60228第5类

绝 缘: LSZH电子束交联聚烯烃共聚物ROHS材料, 优先颜色为黑色或根据客户要求

外护套: LSZH&抗u电子束交联聚烯烃共聚物ROH材料, 优先颜色黑色或根据客户的要求

Technical specfication 技术规范

Nominal Voltage: UO/U 1.0/1.0 KV(AC) / 1.5/1.5KV (DC)

Test Voltage: No breakdown at 6.5 kA(AC)50HZ 5min 20±5℃ /15KA (DC) 5min 20±5℃

Temperature Rating: Working Temperature -40℃ ~+ 90℃, Max conductor Temperature 125℃(continuously 20h), Allowable short circuit temperature 200℃ in 5 second.

Service Life: Expected life span>25 years

Bending Radius: Fixed installation>4D, Occasionally moved>5D

标称电压: UO/U 1.0/1.0 KV(AC) / 1.5/1.5KV (DC)

测试电压: 6.5 kA(AC)50HZ 5min 20±5℃ /15KA (DC) 5min 20±5℃

无击穿额定温度: 工作温度-40℃ ~+ 90℃,导体最高温度125℃(连续20h), 5秒内允许短路温度200℃

使用寿命: 预期寿命>25年

弯曲半径: 固定安装>4D,偶尔移动>5D

SOLAR CABLE 太阳能电缆



Material properties/Standards 材料属性/标准

Fire-resistant Performance: IEC 60332-1
luminousness: EN50268-2
Low Fire Load: DIN 51900

Smoke Emission: IEC61034-1,min 60%
Halogen Content: EN 50525-1: 2011,Appendix B
Executive Standard: EN 50618: 2014

耐火性能: IEC 60332-1
透 光 率: EN50268-2
低火灾负荷: DIN 51900

烟雾排放: IEC61034-1, 最低60%
卤素含量: EN 50525- 1: 2011, 附录B
执行标准: EN 50618: 2014

The product' detailed description please refer to the specification for approval.
产品的详细说明请以说明书为准。



TUV EN50618-2014 H1Z2Z2-K 1x1.5mm ~35mm Halogen free cable for photovoltaic equipment

Cross Section (mm2) 标称截面	Constrction (n/mm) 导体构造	Conductor Stranded od. (mm) 绞合外径	Insulation Od (mm ± 0.15) 绝缘外径	Cable od. (mm ± 0.2) 电缆外径	Conductor Max. Rdesistance AT 20℃ (Ω/km) 最大导体电阻20℃	Current Rating AmbientTemperature AT 60℃(A) 参考载流量
1x2.5	49/0.25	2.02	3.60	5.40	7.98	41
1x4.0	56/0.283	2.46	3.90	5.60	5.09	55
1x6.0	84/0.283	3.02	4.60	6.30	3.39	70
1x10	146/0.283	4.00	5.80	7.80	1.95	98
1x16	228/0.283	5.00	7.00	9.30	1.24	132
1x25	361/0.283	6.50	8.60	11.00	0.795	176
1x35	266/0.40	8.00	10.10	12.50	0.565	218

★ The current-carrying capacity is under the situation of laying the single cable in air.

★ The product' detailed description please refer to the specification for approval.

载流能力是在空气中铺设单根电缆的情况下。

产品的详细说明请参考规范以获得批准。

SOLAR CABLE Approvals



Material properties/Standards 材料属性/标准

Fire-resistant Performance: IEC 60332-1
Low Fire Load: DIN 51900
Bromine Chloride Contents≤0.5%;EN 60684-2,Fluorine Contents<0.1%
Executive Standard: TUV PV1-F 2 P fG 1169/08.2007

Smoke emission: IEC61034-1;EN50268-2
Halogen-free: EN 50267-2-2 PH >4.3;EN 50267-2-1
Fluorine Contents<0.1%

耐火性能: IEC61034-1; EN50268-2
低火灾负荷: DIN 51900
氯溴含量≤0.5%; EN 60684-2, 氟含量<0.1%
执行标准: TUV PV1-F 2 P fG 1169/08.2007

The product' detailed description please refer to the specification for approval.
产品的详细说明请以说明书为准。

TÜV Approved EN50618-2014 H1Z2Z2-K 2x2.5mm ~10mm Double Core Solar Cable

Cross Section (mm2) 标称截面	Constrction (n/mm) 导体构造	Conductor Stranded od. (mm) 绞合外径	Insulation Od (mm ± 0.15) 绝缘外径	Cable od. (mm ± 0.2) 电缆外径	Conductor Max. Rdesistance AT 20℃ (Ω/km) 最大导体电阻20℃	Current Rating AmbientTemperature AT 60℃(A) 参考载流量
2x4	56/0.285	2.46	3.55	5.50x2F	5.09	55
2x6	84/0.285	3.02	4.30	6.30x2F	3.39	70
2x10	146/0.285	4.05	5.80	7.80x2F	1.95	98

★ The current-carrying capacity is under the situation of laying the single cable in air.

★ The product' detailed description please refer to the specification for approval.

载流能力是在空气中铺设单根电缆的情况下。

产品的详细说明请参考规范以获得批准。



TUV Approved EN50618-2014 Double Core Solar Cable

Application 应用

Flexible cable(wire) suitable for PV solar DC current systems.The max allowable DC voltage1.8KV (Conductor to conductor, system without earth).Used at security level II location.

柔性电缆(电线)适用于光伏太阳能直流系统。最大允许直流电压1.8KV(导体对导体, 无接地系统)。用于安全级别为II的位置

Construction 结构

Conductor: Tinned copper,electrical property & Structure in accordance with EN60228 Class 5
Insulation: LSZH electron-beam cross-linked polyolefin copolymer ROHS material, priorcolorblack or as per customer's request.

Outer sheath: LSZH & U-resistant electron-beam cross-linked Polyolefin copolymer ROHSmaterial, prior color black or as per customer's request.

导 体: 镀锡铜, 电气性能和结构符合EN60228第5类

绝 缘: LSZH电子束交联聚烯烃共聚物ROHS材料, 优先颜色为黑色或根据客户要求

外护套: LSZH &抗u电子束交联聚烯烃共聚物ROH材料, 优先颜色黑色或根据客户的要求

Technical specfication 技术规范

Nominal Voltage: UO/U 0.6/1KV(AC)/1/1.8KV(DC)

Test Voltage: No breakdown at 6.5 kA(AC) 50HZ 5min 20±5℃/15 kA(DC) 5min 20±5℃

Temperature Rating: Working temperature -40℃~+90℃ Max conductor temperature 125℃(continuously 20h), Allowable shortcircuit temperature 200℃ in 5 secondService

Life: Expected life span>25 years

yearsBending Radius: Fixed installation>4D, ccasionally moved>5D

标称电压: UO/U 0.6/1KV(AC)/1/1.8KV(DC)

测试电压: 6.5 kA(AC) 50HZ 5min 20±5℃/ 15ka (DC) 5min 20±5℃

额定温度: 工作温度-40℃~+90℃导体最高温度125℃(连续20h), 5秒内允许短路温度200℃

使用寿命: 预期寿命>25年

弯曲半径: 固定安装>4D, 不定期移动>5D



American Standard UL. Approved Solar Cable(UL PV)

Application 应用

Mainly used in wiring of solar power system with earth or no earth
主要用于有地或无地太阳能发电系统的接线

Construction 结构

Conductor: Stranded bare copper or tinned copper,electrical property & Structure inaccordance with ASTM B33 or ASTM B172 flexible conductor requirement
Insulation: ROHS thermosetting insulation material,prior color black or as per customer's request.
Outer Sheath: LSZH & UV-resistant electron-beam cross-linked thermosetting Polyolefinopolymer ROHS material, prior color black or as per customer's request

导体：绞合裸铜或镀锡铜，电气性能和结构符合ASTMB33或ASTM B172柔性导体要求
绝缘：ROHS热固性绝缘材料，优先颜色黑色或根据客户要求
外层：LSZH &抗紫外线电子束交联热固性聚烯烃共聚物ROHS材料，优先颜色黑色或根据客户要求

Technical specfication 技术规范

Nominal Voltage: 600V(AC)、1000 V(AC)、2000 V(AC)
Test Voltage: U=600V 18-10AWG UO=3000V 50HZ 1min 8-2AWG UO-3500V 50HZ 1min
1-4/0AWG UO=4000V 50HZ min 1000V(AC) 2000V(AC) 18-10AWG UO-6000V 50HZ 1min
8-2AWG UO-7500V 50HZ 1min 1-4/0AWG UO-9000V 50HZ 1min
Temperature Rating: Working Temperature -40℃~+90℃,max conductor Temperature 125℃Allowable short circuit temperature 200℃ in 5 second
Service Life: Expected life span>25 years
Bending Radius: Fixed installation>4D,Occasionally moved>5D

标称电压：600V(AC)、1000v (AC)、2000v (AC)
试验电压：U=600V 18-10AWG UO=3000V 50HZ 1min8-2awg UO-3500V 50HZ 1min
1-4/0AWG UO=4000V 50HZ min 1000V(AC) 2000V(AC) 18-10AWG UO- 6000v 50HZ 1min
8-2AWG UO-7500V 50HZ 1min 1-4/0AWG UO-9000V 50HZ 1min
额定温度：工作温度-40C~+90℃，最高导体温度125℃允许短路温度200℃在5秒内
使用寿命：预期寿命>25年
弯曲半径：固定安装>4D，偶尔移动>5D

Material properties/Standards 材料属性/标准

Fire-resistant Performance: UL1581 VW-1 Low-Temperature Properties: UL854
Stability Factor: UL854 UV Resistant: UL2556 Executive Standard: UL4703
耐火性能:UL1581 VW-1 低温性能:UL854
稳定性系数:UL854 抗紫外线:UL2556 执行标准:UL4703

The product' detailed description please refer to the specification for approval.
产品的详细说明请以说明书为准。



American Standard UL Approved Solar Cable(UL PV)

Size (AWG) 标称截面	Constrction (n/mm) 导体构造	Conductor Stranded od. (mm) 绞合外径	Insulation Od (mm ± 0.15) 绝缘外径	Cable od. (mm ± 0.2) 电缆外径	Conductor Max. Rdesistance AT 20℃ (Ω/km) 最大导体电阻20℃
12	56/0.285	2.46	4.85	5.5±0.2	5.09
10	84/0.285	3.02	5.40	6.1±0.2	3.39
8	146/0.285	4.05	6.95	7.8±0.2	2.23
6	228/0.285	5.20	8.10	9.8±0.2	1.24

- ★ The current-carrying capacity is under the situation of laying the single cable in air. 载流能力是在空气中铺设单根电缆的情况下。
★ The product' detailed description please refer to the specification for approval. 产品的详细说明请参考规范以获得批准。



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

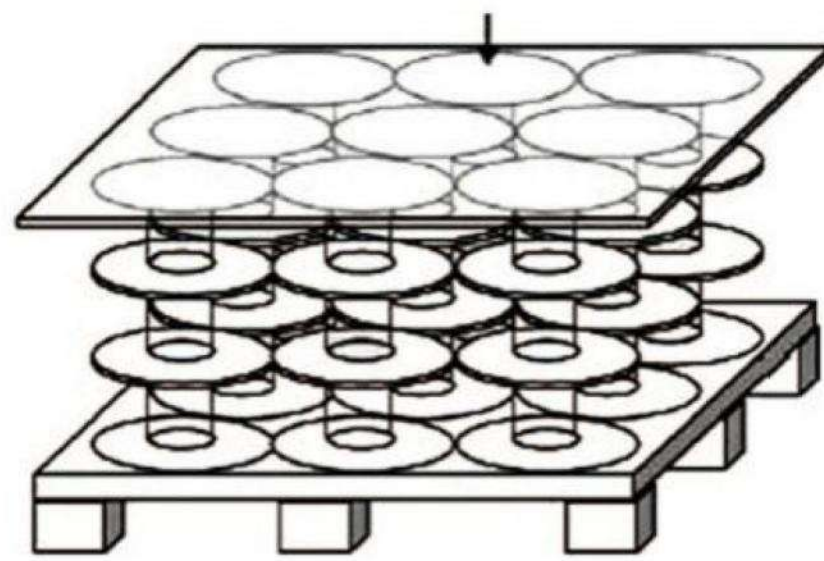
集装箱尺寸：20 gp(5.89米*2.32米*2.31米)
电缆规格：1*4平方毫米
包装方式：木托盘+木桶1000m/卷
装 载 量：300000米



Wooden drum 500m
木轴500m



Normal roll 100m/200m
常规打卷100m/200m



Normal drum 100m/200m
常规打轴100m/200m



76-144 roll in one wooden case
76-144卷装一木箱



CONTAINER SIZE:20GP(5.89M*2.32M*2.31M)
CABLE SPECIFICATION:1*6MM2
PACKING MODE:WOODEN TRAY+ WOODEN DRUM 1000M/ROLL
LOADING CAPACITY:240000M

集装箱尺寸：20 gp(5.89米*2.32米*2.31米)
电缆规格：1*6平方毫米
包装方式：木托盘+木桶1000m/卷
装 载 量：240000米



LEADER-Connector
PV-BN101 & PV-BN101A(1000V) & SY-CP4C

PV Connector 连接器

PV-BN101



PV-BN101A(1000V)



SY-CP4C



Product Specifications 产品规格

Product No.	产品名称	PV-BN101
Rated Voltage	额定电压	TUV 1000V DC
Rating Current	额定电流	30A
Cable Spec	电线规格	2.5mm ² -6.0mm ² 14AWG-10AWG
Pin Dimension	端子规格	Φ4.0mm
Proof Voltage	耐电压	6000V AC(1 Min) 2200V DC(1 Min)
Pollution Degree	污染等级	2
Protection Class	防护等级	Class II
Contact Material	端子材质	Copper ,Tin Plated
Contact Resistance	接触电阻	≤ 5mΩ
Connector Material	连接器材质	PPO
Protection IP	IP保护等级	IP67(IEC 60529)
Withdrawal Force	拔出力	≥ 50N
Insertion Force	插入力	≤ 50N
Temperature Range	测试温度	-40℃~+85℃
Flame Class	阻燃等级	UL94V-0

Product Specifications 产品规格

Product No.	产品名称	PV-BN101A(1000V)
Rated Voltage	额定电压	TUV 1000V DC
Rating Current	额定电流	30A
Cable Spec	电线规格	2.5mm ² -6.0mm ² 14AWG-10AWG
Pin dimension	端子规格	Φ4.0mm
Proof voltage	耐电压	6000V AC(1Min) 2200V DC(1Min)
Pollution degree	污染等级	2
Protection class	防护等级	Class II
Contact Material	端子材质	Copper ,Tin Plated
Contact Resistance	接触电阻	≤ 5mΩ
Connector Material	连接器材质	PPO
Degree of Protection IP	IP保护程度	IP68(IEC 62852)
Withdrawal Force	拔出力	≥ 50N
Insertion Force	插入力	≤ 50N
Temperature Range	测试温度	-40℃~+85℃
Flame Class	阻燃等级	UL94V-0

Product Specifications 产品规格

Product No.	产品名称	SY-CP4C
Rated Voltage	额定电压	TUV 1500V DC
Rating Current	额定电流	25A-50A
Cable Spec	电线规格	2.5mm ² -10mm ² 14AWG-8AWG
Pin dimension	端子规格	Φ4.0mm
Proof voltage	耐电压	6000V AC(1Min) 2200V DC(1Min)
Pollution degree	污染等级	2
Protection class	防护等级	Class II
Contact Material	端子材质	Copper ,Tin Plated
Contact Resistance	接触电阻	≤ 5mΩ
Connector Material	连接器材质	PPO
Degree of Protection IP	IP保护程度	IP68(IEC 62852)
Withdrawal Force	拔出力	≥ 50N
Insertion Force	插入力	≤ 50N
Temperature Range	测试温度	-40℃~+85℃
Flame Class	阻燃等级	UL94V-0

LEADER-Connector
SY-CF0-15 & SY-CF1-15

SY-CF0-15



Product Specifications 产品规格

Product No.	产品名称	SY-CF0-15
Rated Voltage	额定电压	TUV 1500V DC
Rating Current	额定电流	3A-50A (FUSE)
Pin dimension	端子规格	Φ4.0mm
Pollution degree	污染等级	2
Protection class	防护等级	Class II
Contact Material	端子材质	Copper,Tin plated
Contact Resistance	接触电阻	≤ 5mΩ
Connector Material	连接器材质	PPO
Degree of Protection IP	IP保护程度	IP68(IEC 62852)
Withdrawal Force	拔出力	≥ 50N
Insertion Force	插入力	≤ 50N
Temperature Range	测试温度	-40℃~+85℃
Flame Class	阻燃等级	UL94V-0

SY-CF1-15



Product Specifications 产品规格

Product No.	产品名称	SY-CF1-15
Rated Voltage	额定电压	TUV 1500V DC
Rating Current	额定电流	3A-50A (FUSE)
Pin dimension	端子规格	Φ4.0mm
Pollution degree	污染等级	2
Protection class	防护等级	Class II
Contact Material	端子材质	Copper,Tin plated
Contact Resistance	接触电阻	≤ 5mΩ
Connector Material	连接器材质	PPO
Degree of Protection IP	IP保护程度	IP68(IEC 62852)
Withdrawal Force	拔出力	≥ 50N
Insertion Force	插入力	≤ 50N
Temperature Range	测试温度	-40℃~+85℃
Flame Class	阻燃等级	UL94V-0



LEADER–T Branch Connector

SY-BB21-AB & SY-BB31-AB & SY-BB41-AB

LEADER–Y Branch Connector

SY-BY21-AB & SY-BY31-AB & SY-BY41-AB

SY-BB21-AB



SY-BB31-AB



SY-BB41-AB



SY-BY21-AB



SY-BY31-AB



SY-BY41-AB



Product Specifications 产品规格

Product No.	产品名称	SY-BB21-AB
Rated Voltage	额定电压	TUV 1500V
Rating Current	额定电流	50A
Cable Spec	电线规格	2.5mm2~6.0mm2 14AWG~10AWG
Pin dimension	端子规格	Φ4.0mm
Proof voltage	耐电压	6000V AC(1Min) 2200V DC(1Min)
Pollution degree	污染等级	2
Protection class	防护等级	Class II
Contact Material	端子材质	Copper ,Tin Plated
Contact Resistance	接触电阻	≤ 5mΩ
Connector Material	连接器材质	PPO
Degree of Protection IP	IP保护程度	IP67(IEC 62852)
Withdrawal Force	拔出力	≥ 50N
Insertion Force	插入力	≤ 50N
Temperature Range	测试温度	-40℃~+85℃
Flame Class	阻燃等级	UL94V-0

Product Specifications 产品规格

Product No.	产品名称	SY-BB31-AB
Rated Voltage	额定电压	TUV 1000V
Rating Current	额定电流	50A
Cable Spec	电线规格	2.5mm2~6.0mm2 14AWG~10AWG
Pin dimension	端子规格	Φ4.0mm
Proof voltage	耐电压	6000V AC(1Min) 2200V DC(1Min)
Pollution degree	污染等级	2
Protection class	防护等级	Class II
Contact Material	端子材质	Copper ,Tin Plated
Contact Resistance	接触电阻	≤ 5mΩ
Connector Material	连接器材质	PPO
Degree of Protection IP	IP保护程度	IP67(IEC 60529)
Withdrawal Force	拔出力	≥ 50N
Insertion Force	插入力	≤ 50N
Temperature Range	测试温度	-40℃~+85℃
Flame Class	阻燃等级	UL94V-0

Product Specifications 产品规格

Product No.	产品名称	SY-BB41-AB
Rated Voltage	额定电压	TUV 1000V
Rating Current	额定电流	50A
Cable Spec	电线规格	2.5mm2~6.0mm2 14AWG~10AWG
Pin dimension	端子规格	Φ4.0mm
Proof voltage	耐电压	6000V AC(1Min) 2200V DC(1Min)
Pollution degree	污染等级	2
Protection class	防护等级	Class II
Contact Material	端子材质	Copper ,Tin Plated
Contact Resistance	接触电阻	≤ 5mΩ
Connector Material	连接器材质	PPO
Degree of Protection IP	IP保护程度	IP67(IEC 60529)
Withdrawal Force	拔出力	≥ 50N
Insertion Force	插入力	≤ 50N
Temperature Range	测试温度	-40℃~+85℃
Flame Class	阻燃等级	UL94V-0

Product Specifications 产品规格

Product No.	产品名称	SY-BY21-AB
Rated Voltage	额定电压	TUV 1000V
Rating Current	额定电流	20A~30A
Cable Spec	电线规格	2.5mm2~6.0mm2 14AWG~10AWG
Pin dimension	端子规格	Φ4.0mm
Pollution degree	污染等级	2
Protection class	防护等级	Class II
Contact Material	端子材质	Copper ,Tin Plated
Contact Resistance	接触电阻	≤ 5mΩ
Connector Material	盒子材料	PP
Degree of Protection IP	IP保护程度	IP67(IEC 60529)
Withdrawal Force	拔出力	≥ 50N
Insertion Force	插入力	≤ 50N
Temperature Range	测试温度	-40℃~+85℃
Flame Class	阻燃等级	UL94V-0

Product Specifications 产品规格

Product No.	产品名称	SY-BY31-AB
Rated Voltage	额定电压	TUV 1000V
Rating Current	额定电流	20A~30A
Cable Spec	电线规格	2.5mm2~6.0mm2 14AWG~10AWG
Pin dimension	端子规格	Φ4.0mm
Pollution degree	污染等级	2
Protection class	防护等级	Class II
Contact Material	端子材质	Copper ,Tin Plated
Contact Resistance	接触电阻	≤ 5mΩ
Connector Material	盒子材料	PP
Degree of Protection IP	IP保护程度	IP67(IEC 60529)
Withdrawal Force	拔出力	≥ 50N
Insertion Force	插入力	≤ 50N
Temperature Range	测试温度	-40℃~+85℃
Flame Class	阻燃等级	UL94V-0

Product Specifications 产品规格

Product No.	产品名称	SY-BY41-AB
Rated Voltage	额定电压	TUV 1000V
Rating Current	额定电流	20A~30A
Cable Spec	电线规格	2.5mm2~6.0mm2 14AWG~10AWG
Pin dimension	端子规格	Φ4.0mm
Pollution degree	污染等级	2
Protection class	防护等级	Class II
Contact Material	端子材质	Copper ,Tin Plated
Contact Resistance	接触电阻	≤ 5mΩ
Connector Material	盒子材料	PP
Degree of Protection IP	IP保护程度	IP67(IEC 60529)
Withdrawal Force	拔出力	≥ 50N
Insertion Force	插入力	≤ 50N
Temperature Range	测试温度	-40℃~+85℃
Flame Class	阻燃等级	UL94V-0

LEADER–Junction Box
PV–BN221 & PV–BN221B & PV–BN082TA–I

PV-BN221



Product Specifications 产品规格		
Product No.	产品名称	PV–BN221
Rated Voltage	额定电压	TUV 1000V DC
Busar connection	焊带链接	Welding
Rating Current	额定电流	4.8A–10A
Cable Spec	电线规格	2.5mm ² –6.0mm ² 14AWG–10AWG
Degree of protection	防水方式	Pouring sealant
Proof voltage	耐电压	6000V AC(1Min) 2200V DC(1Min)
Amount of rails	轨道数量	2 rail terminals
Protection class	防护等级	Class II
Contact Material	端子材质	Copper ,Tin Plated
Contact Resistance	接触电阻	≤ 5mΩ
BOX Material	盒子材料	PPO
Degree of Protection IP	IP保护程度	IP67(IEC 60529)
Temperature Range	测试温度	–40℃~+85℃
Flame Class	阻燃等级	UL94V–0

PV-BN221B



Product Specifications 产品规格		
Product No.	产品名称	PV–BN221B
Rated Voltage	额定电压	TUV 1000V DC
Busar connection	焊带链接	Welding
Rating Current	额定电流	8.4A–15A
Cable Spec	电线规格	4.0mm2/12AWG
Degree of protection	防水方式	Pouring sealant
Proof voltage	耐电压	6000V AC(1Min) 2200V DC(1Min)
Amount of rails	轨道数量	2 rail terminals
Protection class	防护等级	Class II
Contact Material	端子材质	Copper ,Tin Plated
Contact Resistance	接触电阻	≤ 5mΩ
BOX Material	盒子材料	PPO
Degree of Protection IP	IP保护程度	IP67(IEC 60529)
Temperature Range	测试温度	–40℃~+85℃
Flame Class	阻燃等级	UL94V–0

PV-BN082TA-I



Product Specifications 产品规格		
Product No.	产品名称	PV–BN082TA–I
Rated Voltage	额定电压	TUV 1500V DC
Busar connection	焊带链接	Welding
Rating Current	额定电流	15A
Cable Spec	电线规格	4.0mm2–6.0mm2 12AWG–10AWG
Degree of protection	防水方式	Sealing ring
Proof voltage	耐电压	6000V AC(1Min) 2200V DC(1Min)
Amount of rails	轨道数量	4 rail terminals
Protection class	防护等级	Class II
Contact Material	端子材质	Copper ,Tin Plated
Contact Resistance	接触电阻	≤ 5mΩ
BOX Material	盒子材料	PPO
Degree of Protection IP	IP保护程度	IP67(IEC 60529)
Temperature Range	测试温度	–40℃~+85℃
Flame Class	阻燃等级	UL94V–0

LEADER–Junction Box
PV–BN126T–I

PV-BN126T-I



Product Specifications 产品规格		
Product No.	产品名称	PV–BN126T–I
Rated Voltage	额定电压	TUV 1500V DC
Busar connection	焊带链接	Welding
Rating Current	额定电流	14A
Cable Spec	电线规格	4.0mm2–6.0mm2 12AWG–10AWG
Degree of protection	防水方式	Pouring sealant
Proof voltage	耐电压	6000V AC(1Min) 2200V DC(1Min)
Amount of rails	轨道数量	4 rail terminals
Protection class	防护等级	Class II
Contact Material	端子材质	Copper ,Tin Plated
Contact Resistance	接触电阻	≤ 5mΩ
BOX Material	盒子材料	PPO
Degree of Protection IP	IP保护程度	IP67(IEC 60529)
Temperature Range	测试温度	–40℃~+85℃
Flame Class	阻燃等级	UL94V–0



PV TOOLS

SY-T001/002 & SY-C005/006

Product Specifications 产品规格

Product No.	SY-T001/SY-T002
Suitable For	Locking turncap and unlocking 4.0/2.0 connectors



OPEN-END SPANNER AND UNLOCKING TOOL(1500V)
开口扳手及解锁工具(1500v)



SEALING CAPS Mc4
密封帽 Mc4



OPEN-END SPANNER AND UNLOCKING TOOL(1000V)
开口扳手及开锁工具(1000v)

PV TOOLS

SY-C003A/B/C & SY-S004



CRIMPING PLIERS 1 压线钳



CRIMPING PLIERS 2 压线钳



WIRE STRIPPER PLIER 剥线钳



CUTTING TOOL 剪切工具



MC4 TOOL CASE 1 MC4工具箱



MC4 TOOL CASE 2 MC4工具箱



LEADER
LLA7 AC MCB&LLA7-125 AC MCB

LLA7 AC MCB



SPECIFICATION

Rated Current In (A)		6,10,16,20, 25, 32, 40, 50, 63
Rated Operational Voltage Ue (V)	1P	220/380,230/400,240/415
	2P, 3P, 4P	380,400,415
Rated Insulation Voltage Ui (V)		415
Rated Impulse Withstand Voltage Uimp (kV)		4kV
Ultimate Short Circuit Breaking Capacity Icu (kA)		3kA, 4.5kA
Rated Frequency(Hz)		50/60Hz
Electrical Life(operations)		≥4000
Mechanical Life (operations)		≥10000
Tripping Curve		B (3~5In), C (5~10In), D (10~14In)
Standard		IEC/EN 60898-1

LLA7-125 AC MCB



SPECIFICATION

Rated Current In (A)		80,100,125
Rated Operational Voltage Ue (V)	1P	220/380,230/400,240/415
	2P, 3P, 4P	380,400,415
Rated Insulation Voltage Ui (V)		415
Rated Impulse Withstand Voltage Uimp (kV)		4kV
Ultimate Short Circuit Breaking Capacity Icu (kA)		6kA, 10kA
Rated Frequency(Hz)		50/60Hz
Electrical Life(operations)		≥4000
Mechanical Life (operations)		≥10000
Tripping Curve		B (3~5In), C (5~10In), D (10~14In)
Standard		IEC/EN 60898-1

LEADER
DPN AC MCB&WiFi AC Breaker

DPN AC MCB



SPECIFICATION

Rated Current In (A)		6,10,16,20, 25, 32, 40, 50, 63
Rated Operational Voltage Ue (V)	1P	220/380,230/400,240/415
	2P, 3P, 4P	380,400,415
Rated Insulation Voltage Ui (V)		415
Rated Impulse Withstand Voltage Uimp (kV)		4kV
Ultimate Short Circuit Breaking Capacity Icu (kA)		6kA, 10kA
Rated Frequency(Hz)		50/60Hz
Electrical Life(operations)		≥4000
Mechanical Life (operations)		≥10000
Tripping Curve		B (3~5In), C (5~10In), D (10~14In)
Standard		IEC/EN 60898-1

WiFi AC Breaker



SPECIFICATION

Rated Current In (A)	MCB	10,16,20, 25, 32, 40, 50, 63,80,100,125
	MCB+Meter	10,16,20, 25, 32, 40, 50, 63,80,100
	RCBO+Meter	10,16,20, 25, 32, 40, 50, 63,80,100
Rated Operational Voltage Ue (V)	1P, 2P	220VAC,230VAC
	3P, 4P	380VAC,400VAC
Pole	MCB	1P,2P,3P,4P
	MCB+Meter	1P,2P,3P,4P
	RCBO+Meter	2P,4P
Rated Impulse Withstand Voltage Uimp (kV)		6kV
Ultimate Short Circuit Breaking Capacity Icu (kA)		3kV
Rated Frequency(Hz)		50Hz
Electrical Life(operations)		≥4000
Mechanical Life (operations)		≥10000
Tripping Curve		C (5~10In)
Standard		GB/T 10963-1



LDM7-DC Breaker (DC MCB) 63A

LDM7-DC Breaker (DC MCB)



SPECIFICATION

LDM7 Series Circuit Breaker		LDM7			
Frame Degree Rated Current		63A			
Pole		1P, 2P, 3P, 4P			
Rated Operating Voltage (VDC)		12V,24V,48V, 250V, 500V, 750V,1000V			
Rated Current In (A)		10A,16A,20A,25A,32A,40A,50A,63A			
Rated Insulation Voltage Ui (VDC)		1200VDC			
Rated Impact Voltage Uimp (kV)		4			
Ultimate Breaking Capacity Icu (kA)		6			
Run Breaking Capacity Ics (%Icu)		0.75			
Curve Type		C			
Trip Type		Thermal-magnetic			
Mechanical	Actual average value	20000 times			
	Standard value	8500 times			
Eletric	Actual average value	2500 times			
	Standard value	1500 times			
Wiring Capacity (mm²)		In≤32A,1~25 mm²,I≥40A,10~35mm²			
Ambient Temperature(°C)		-20°C~+70°C			
Atitude		≤2000 m			
Relative Humidity		≤9.5%			
Pollution Level		3			
Installation Environment		No obvious shock and vibration			
Installation Category		Class III			
Installation		Standard din rail			
Dimensions (W)*(H)*(DEEP) (mm)	W	18	36	54	72
	H	80	80	80	80
	DEEP	71	71	71	71
Weight (KG)		0.12	0.24	0.36	0.48



LDM7Z DC Breaker(DC MCB) 125A

LDM7Z DC Breaker(DC MCB)



SPECIFICATION

LDM7 Series Circuit Breaker		LDM7Z			
Frame Degree Rated Current		125A			
Pole		1P, 2P, 3P, 4P			
Rated Operating Voltage (VDC)		12V,24V,48V, 250V, 500V, 750V,1000V			
Rated Current In (A)		80A,100A,125A			
Rated Insulation Voltage Ui (VDC)		1000VDC			
Rated Impact Voltage Uimp (kV)		4			
Ultimate Breaking Capacity Icu (kA)		6			
Run Breaking Capacity Ics (%Icu)		0.75			
Curve Type		C			
Trip Type		Thermal-magnetic			
Mechanical	Actual average value	20000 times			
	Standard value	8500 times			
Eletric	Actual average value	2500 times			
	Standard value	1500 times			
Wiring Capacity (mm²)		In≤32A,1~25 mm²,I≥40A,10~35mm²			
Ambient Temperature(°C)		-20°C~+70°C			
Atitude		≤2000 m			
Relative Humidity		≤9.5%			
Pollution Level		3			
Installation Environment		No obvious shock and vibration			
Installation Category		Class III			
Installation		Standard din rail			
Dimensions (W)*(H)*(DEEP) (mm)	W	27	54	81	108
	H	80	80	80	80
	DEEP	71	71	71	71
Weight (KG)		0.18	0.36	0.54	0.72

LD-ABN MCCB



SPECIFICATION

Current Frame			100	250	400	800
	2P		ABN102c	ABN202c	ABN402c	ABN802c
Model Type	3P		ABN103c	ABN203c	ABN403c	ABN803c
	4P		ABN104c	ABN204c	ABN404c	ABN804c
Rated Current In (A)			15,20,30, 40,50,60, 75,100	100,125, 150,175, 200,225, 250	250,300, 350,400	500,630, 700,800
Rated Operational Voltage Ue (V)			690V			
Rated Insulation Voltage Ui (V)			750V			
Rated Impulse Withstand Voltage Uimp (kV)			8kV			
Ultimate Short Circuit Breaking Capacity Icu (kA)	50/60Hz	220/250V	35	85	50	50
		380V	22	42	42	45
		415V	18	37	37	37
		480/500V	10	26	18	25
		690V	5	8	5	8
Electrical Life (operations)			1500	1000	1000	1000
Mechanical Life (operations)			8500	7000	4000	2500
Standard			IEC 60947-2			

LMM1-PV DC Breaker(DC MCCB)



SPECIFICATION

Type	LMM1-PV-125	LMM1-PV-225	LMM1-PV-400	LMM1-PV-630
Max Related Current	125A	225A	400A	630A
Related Current In (A)	60/ 80/ 100/ 125	125/160/200/225	225/250/300/350/400	400/500/630
Related Working Voltage Ue (VDC)	500V,1000V			
Related Insulated Voltage Ui (V)	1500V			
Related Impulse Withstand Voltage	8kV			
Test Voltage One Minute (V)	3550V			
Short-Circuit Breaking Capacity (kA) Icu (1cs=75%Icu)	M	35	M	35
	H	35	H	15
	R	65	R	65
Isolator Capacity	Yes			
Operating Temperature	-25°C~ +50°C			
Protection Grade	IP20			
Flashover Distance	≥50			
Instantaneous Action Value	20In			
Installation Method	Fixed type			
Technical Standard	IEC60947-2、IEC60947-1、GB14048.1、GB14048.2			

Voltage Current Protector



SPECIFICATION

Rated supply voltage	AC 220V
Operation voltage range	AC 80V~400V(single phase)
Rated frequency	50/60Hz
Electric current(>A)setting range	1~63A
Overvoltage(>U)setting range	230~300V
Undervoltage(<U)setting range	140~210V
Error	2%
>U and <U trip delay	0.5S
Reset/start delay	1s~300s
Voltage measurement accuracy	1%(Not exceeding 1% of the overall range)
Rated insulation voltage	400V
Output contact	1NO
Electrical life	10 ⁵
Mechanical life	10 ⁵
Protection degree	Ip20
Pollution degree	3
Altitude	≤2000m
Operatintg temperature	-50°C~55°C
Humidity	≤50%at40°C(without condensation)
Storage temperature	-30°C~70°C

LD-F360 RCCB(AC)



SPECIFICATION

Model Type	LD-F362	LD-F364
Rated Current In (A)	16,25,32,40,63	25,32,40,63,100
Rated Voltage Ue (V)	240V	240V/415V
Pole Number	1P+N	3P+N
Leakage Acting Current (mA)	10,30,100,300	30,100,300
Range of Break-off	$0.5 \cdot I_n^{\Delta n} \sim 1.0 \cdot I_n^{\Delta n}$	
Rated Frequency (Hz)	50/60Hz	
Type	Electronic/Magnetic	
Tripping Time (s)	$\leq 0.1s$	
Electrical Life (operations)	≥ 2000	
Mechanical Life (operations)	≥ 4000	
Standard	IEC/EN 61008-1	

ID RCCB(AC)



SPECIFICATION

Model Type	ID	
Rated Current In (A)	16,25,32,40,63,80,100	25,32,40,63,80,100
Rated Voltage Ue (V)	240V	240V/415V
Pole Number	1P+N	3P+N
Leakage Acting Current (mA)	10,30,100,300	30,100,300
Range of Break-off	$0.5 \cdot I_n^{\Delta n} \sim 1.0 \cdot I_n^{\Delta n}$	
Rated Frequency (Hz)	50/60Hz	
Type	Electronic/Magnetic	
Tripping Time (s)	$\leq 0.1s$	
Electrical Life (operations)	≥ 2000	
Mechanical Life (operations)	≥ 4000	
Standard	IEC/EN 61008-1	

LD-SPD-PV DC Surge Protect Device(DC SPD)



SPECIFICATION

Type	LD-SPD	
Pole	2P	3P
Rated Voltage	DC 500V, 1000V	
Max Operating Voltage	DC 630V, 840V, 1060V, 1260V, 1580V	
Discharge Current	5kA --- 60kA	
Protection Level	1.9kV~5.5kV	
Operating Temperature	-40°C to +85°C	
Relative Humidity	$\leq 95\%(25^\circ\text{C})$	
Installation Method	35mm Din Rail	
Window Indicates	Normal: Green Feailure: Red	
Degree of Protection	IP20	
Leakage	<20	

AC Surge Protect Device (AC SPD)



SPECIFICATION

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			



1000V PV Fuse & Fuse Holder

1000V PV Fuse & Fuse Holder



SPECIFICATION

Type	1000V DC Fuse Holder
Pole	1P/2P
Rated Voltage	DC 1000V
Rated Current(A)	4, 5, 6, 8, 10, 12, 15, 20, 25, 30
Short-Circuit Breaking Capacity	33kA
Max Power Attenuation	3.5kw
Protection Grade	IP20
Connection	2.5-10mm2
Operation Ambient Temperature	-30°C to +70°C
Resistance and Damp Hot	Class2
Elevation	≤2000 m
Installation Way	TH35-7.5/DIN35 Rail Installation
RH(relative air humidity)	when+20°C,not exceed 95%; when+40°C, not exceed 50%
Pollution Class	+3
Installation Enviroment	the place of no abvious vibrate& impact
Installation class	III
Holder Size	W18 x H89 x L90 mm
Fuse Size	10x38mm
Weight(KG)	0.07



1500V PV Fuse & Fuse Holder

1500V PV Fuse & Fuse Holder



SPECIFICATION

Type	1500V DC Fuse Holder
Pole	1P
Rated Voltage	DC 1500V
Rated Current(A)	4, 5, 6, 8, 10, 12, 15, 20, 25, 30
Short-Circuit Breaking Capacity	33kA
Max Power Attenuation	3.5kw
Protection Grade	IP20
Connection	2.5-10mm2
Operation Ambient Temperature	-30°C to +70°C
Resistance and Damp Hot	Class2
Elevation	≤2000 m
Installation Way	TH35-7.5/DIN35 Rail Installation
RH(relative air humidity)	when+20°C,not exceed 95%; when+40°C, not exceed 50%
Pollution Class	+3
Installation Enviroment	the place of no abvious vibrate& impact
Installation class	III
Holder Size	W21 x H68 x L123mm
Fuse Size	10x85mm
Weight(KG)	0.18

PV Combiner Box



SPECIFICATION

Model	LD-ACB-2	LD-ACB-4
Number of DC Inputs	2	4
Material of Box	ABS	
Max Rated Voltage DC	1000V/1500V	
DC Fuse	15A (Recommend 15A, support other ampre)	
Fuse Holder	1000V/1500V DC 30A	
DC Breaker	32A	63A
Surge Protection DC	Type II In=20KA,I _{max} =40KA, U _{cpv} =1000V DC	
Over-Voltage Category	Cat III	
Connection Type DC Input	PG09,IP68	
Input Cable Size for Negative and Positive	Φ4-8mm	
Number of DC Outputs	1 (Support customize for output number)	
Connection Type DC Output	PG11	
Ambiant Temperature Range/Humidity	Temperature: -20℃~+60℃,Humidity: 0-99%	
Altitude	≤2000m. Derating for above 2000m.	
Installation	Wall mounting/ Padlockable latch	

FEATURE: Lighter weight, more flexible for installation.

Function:

1. Water proof, dust proof.
2. PV convergence, overcurrent protection, overvoltage protection and lightning protection.
3. Can work for PV grid-tie inverter and off-grid inverter.

PV Combiner Box



SPECIFICATION

Model	LD-CB2	LD-CB4	LD-CB6	LD-CB8	LD-CB10	LD-CB12	LD-CB14	LD-CB16	LD-CB18	LD-CB20	LD-CB22	LD-CB24
Number of DC Inputs	2	4	6	8	10	12	14	16	18	20	22	24
Material of Box	Coated Iron											
Protection Level	IP65/IP66											
IK Impact Resistance Class	IK08											
Max Rated Voltage DC	1000V/1500V											
DC Fuse	15A (Recommend 15A, support other amperes)											
Fuse Holder	1000V/1500V DC 30A											
DC Breaker	32A	63A	100A	125A	150A	200A	225A	250A	275A	300A	315A	350A
Surge Protection DC	Type II In=20KA,I _{max} =40KA, U _{cpv} =1000V DC											
Over-Voltage Category	Cat III											
Diode for The Function of Anti-Reflux	Bulid in											
Connection Type DC Input	PG09,IP68											
Input Cable Size for Negative and Positive	Φ4-8mm											
Number of DC Outputs	1(Support customize for output number)											
Connection Type DC Output	PG11	PG11	PG13.5	PG19	PG19	PG25	PG25	PG25	PG29	PG29	PG29	PG29
Gland Connectors	Material: Nylon Plastic, Seals: Nitrile Rubber Buna, IP68											
Ambiant Temperature Range/Humidity	Temperature:-20℃~+60℃,Humidity: 0-99%											
Altitude	≤2000m. Derating for above 2000m.											
Installation	Wall mounting/Padlockable latch											

Function

1. Water proof, dust proof.
2. PV convergence, current anti-reverse protection, over current protection, over voltage protection and lightning protection.
3. Can work for PV grid-tie inverter and off-grid inverter.
4. Anti-theft lock.

Distribution BOX



SPECIFICATION

Model	Description	Size
HA-4	4 way outdoor combiner box-IP65 waterproof& fire-resistance	118.5x159x88.6mm
HA-8	8 way outdoor combiner box-IP65 waterproof& fire-resistance	200.5x154.5x88.9mm
HA-12	12 way outdoor combiner box-IP65 waterproof& fire-resistance	310x197.5x106mm
HA-18	18 way outdoor combiner box-IP65 waterproof& fire-resistance	364x197.5x108mm
HA-26	26 way outdoor combiner box-IP65 waterproof& fire-resistance	257.5x356.1x106.2mm
HA-36	36 way outdoor combiner box-IP65 waterproof& fire-resistance	398x278x112mm
HT-5	5 way outdoor combiner box-IP65 waterproof& fire-resistance	118.5x159x88.6mm
HT-8	8 way outdoor combiner box-IP65 waterproof& fire-resistance	200.5x154.5x88.9mm
HT-12	12 way outdoor combiner box-IP65 waterproof& fire-resistance	310x197.5x106mm
HT-15	15 way outdoor combiner box-IP65 waterproof& fire-resistance	310x197.5x106mm
HT-18	18 way outdoor combiner box-IP65 waterproof& fire-resistance	364x197.5x108mm
HT-24	24 way outdoor combiner box-IP65 waterproof& fire-resistance	257.5x356.1x106.2mm



Product Number	HT-5ways
Protection Level	IP65
Rated Voltage	1000VAC-1500VDC
Product Material	ABS/PC
Impact Resistance	IK10
Operating Temperature	-25~100°C



Product Number	HT-15ways
Protection Level	IP65
Rated Voltage	1000VAC-1500VDC
Product Material	ABS/PC
Impact Resistance	IK10
Operating Temperature	-25~100°C

LD0189 DC Isolator



SPECIFICATION

Type	LD0189
Function	Isolating, Controlling
Standard	IEC60947-3,AS60947.3
Pole Numbe	4P
Max Rated Current	32A
Rated Working Voltage (Ue)	1200VDC
Rated Current (In)	16A,25A, 32A
Rated Insulated Voltage (Ui)	1200VDC
Rated Short-Time Withstand Current (Icw)	1kA, 1S
Rated Implused Voltage (Uimp)	8kV
Overvoltage Category	II
Polarity	Non polarity,"+"and"- "polarities could be interchanged
Mechanical	18000 times
Electrical	2000 times
Ingress Protection	Ip66
Storge Temperature	-40°C~+85°C
Mounting Type	Vertically or horizontally
Pollution Degree	3

LD0191 DC Isolator



SPECIFICATION

Type	LD0191
Function	Isolating, Controlling
Standard	IEC60947-3,AS60947.3
Pole Numbe	4P
Max Rated Current	32A
Rated Working Voltage (Ue)	1200VDC
Rated Current (In)	16A,25A, 32A
Rated Insulated Voltage (Ui)	1200VDC
Rated Short-Time Withstand Current (Icw)	1kA, 1S
Rated Implused Voltage (Uimp)	8kV
Overvoltage Category	II
Polarity	Non polarity,"+"and"- "polarities could be interchanged
Mechanical	18000 times
Electrical	2000 times
Ingress Protection	Ip20
Storge Temperature	-40°C~+85°C
Mounting Type	Vertically or horizontally
Pollution Degree	3