



# PRODUCT SELECIION CATALOGUE

YUEQING YIRUI ELECTRIC APPLIANCE CO.,LTD.



Address: No.555 Chezhan Road,Liushi Town,  
Yueqing City, Zhejiang Province, P.R. China. 325600

Tel: 008618357712121    E-mail: info@yroele.com  
Wechat: yroelectric    Http:// www.yroele.com

# Yirui Electric

Yueqing Yirui Electric Appliance Co., Ltd is a trusted manufacturer of protective components (Rapid Shutdown Device, PV combiner box DC Circuit Breaker, Fuse, Surge Protector, Isolator Switch, Solar Connector etc) for photovoltaic systems across the globe. Our experience of working in the electrical industry for more than 10 years allows us to create solar DC components that comply with the latest DC standards.

Quality is the primary goal among each of our workshops since this leads to the best performance and safety for any solar power system.

## Your Reliable Option

Our commitment to quality increased brand awareness for your company. To achieve our goal, our factory complies with CB, CE, KEMA, UKCA, TUV, ISO9001, and RoHS standards.



ISO9001 certificate



RSD ETL



MC4 Connector TUV



AC MCB UKCA



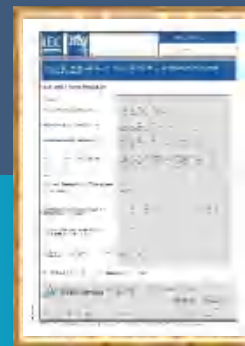
AC MCB KEMA



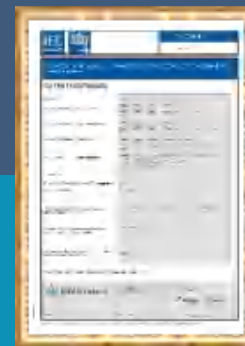
DC MCCB TÜV



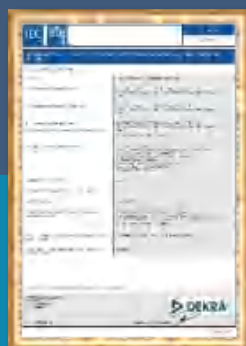
DC FUSE LINK TÜV



DC MCB TUV



DC SPD CB



AC MCB CB

## About us PRODUCT CATALO

-  **01** YRSD Rapid Shutdown Device
-  **05** YRO Modular level RSD DC 24V Series
-  **09** YRSD Modular level PLC type
-  **10** YHQ-460/YHQ-600 PV MPPT Optimizer
-  **11** YRL7-63DC Non-Polarity DC Circuit Breaker
-  **12** YRL7-125DC Non-Polarity DC Circuit Breaker
-  **13** YRM1Z Non-Polarity DC Moulded Case Circuit Brea
-  **13** YRM3DC-HU Mold Case Circuit Breaker
-  **14** YRSP-D2 T2 PV Surge Protective Device
-  **14** YRM3DC-HU Mold Case Circuit Breaker
-  **15** YROPV-30 Photovoltaic DC fuse
-  **15** YROPV-63 DC Fuse
-  **15** YROPV-160(NH00) Battery Fuse Disconnecto
-  **15** YROPV-32H DC Fuse
-  **16** YRDS1DB/N32 DC ISOLATOR SWITCH
-  **16** YRDS1EL/N32 DC ISOLATOR SWITCH
-  **17** YRDS1x/S32 DC ISOLATOR SWITCH
-  **17** YRHD-315 DC ISOLATOR SWITCH
-  **18** YRBS Battery Rotary Switch
-  **19** YR65 Waterproof Car DC Circuit Breaker
-  **19** Photovoltaic Connector(MC4 Connector)
-  **19** Photovoltaic Branch Connector
-  **20** YSC-H Photovoltaic Fuse Connector
-  **20** Photovoltaic Cable
-  **21** Energy storage connector
-  **21** Mc4 Connector Wrench
-  **22** YRMI-400W~2000W Micro Inverter
-  **24** Stacked FeLiPO4 Battery
-  **24** Wall Mounting FeLiPO4 Battery
-  **24** YRL7-63 Miniature Circuit Breaker
-  **25** YRM1 Mold Case Circuit Breaker
-  **25** YRL7-63LE Residual Current Circuit Breaker Operato
-  **25** YRSP-A2 T2 Surge Protective Device
-  **26** R015&RT18-32X Fuse
-  **27** NT00/NT1/NT2/NT3/NT4 Knife Fuse
-  **27** YRAS80 AC Isolator Switch
-  **29** YRMTS-63 Inter-Lock Circuit Breaker
-  **29** YMTS-63 Manual Changeover Switch
-  **30** YRQ2CB Dual Power Transfer Switch
-  **30** YRQ2CB Dual Power Transfer Switch Switch
-  **30** YRMTS-63 Inter-Lock Circuit Breaker
-  **30** YRQ4PC-125 Dual Power Transfer Switch
-  **31** YRQ4PC Dual Power Transfer Switch
-  **17** YRGL1 Manual Changeover Switch
-  **18** YRCB-63Wifi Circuit Breaker
-  **31** YCH8 Modular Contactor
-  **32** YRVP Over&Under Voltage Protector
-  **32** YEVC-3.5KB Portable EV Charger

# String Level Rapid Shutdown Device

The Rapid Shutdown has been especially developed as a safety device for direct current (DC) photovoltaic installations. The DC disconnect switch is used to disconnect the connected strings of the installation in case of an emergency situation. Such an emergency situation could be in case of fire.



1-2 Strings



3-5 Strings



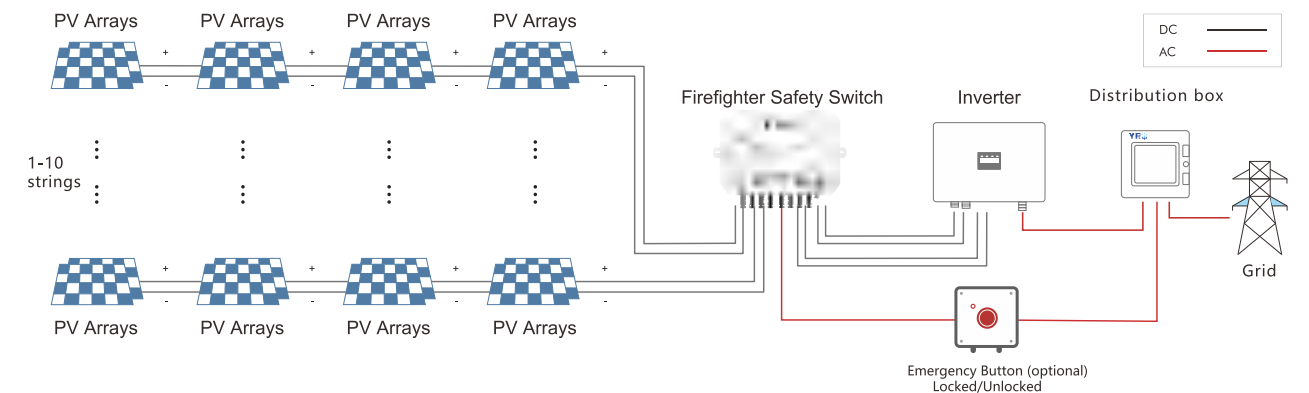
6-10 Strings

The Rapid Shutdown needs to be placed as close to the solar panels as possible. Due to its enclosure, the switch is protected against external influences like dust and moisture. The whole set-up is conformed to IP66 which makes it suitable for outdoor usage when needed.



**YR**  
Product video  
Scan code to view

## • Diagram



## Technical Date

## Technical Parameter

Type Code:	YRSD-xA; x=1~10 Strings
String Voltage:	DC1000V DC1500V
String Current:	32A(40A optional) 26A
Rated Voltage:	AC230V~
Operation Voltage:	AC100-270V~
Operation Temp:	-40~+85°C
Protection Temp:	+70°C
Protection Level:	IP66
Standard:	IEC 60947-1&3/NEC 2014



# String Level Rapid Shutdown Device(Wifi)

The Rapid Shutdown has been especially developed as a safety device for direct current (DC) photovoltaic installations. The DC disconnect switch is used to disconnect the connected strings of the installation in case of an emergency situation. Such an emergency situation could be in case of fire.

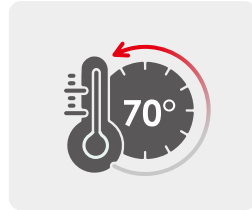


1-5 Strings



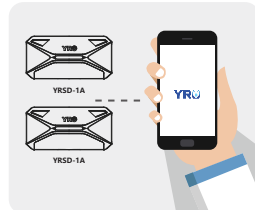
6-10 Strings

### Automatic Shutdown



Automatically shutdown the DC power of panels when detecting temperature of the area is higher than 70°C.

### RS485 shutdown Optional

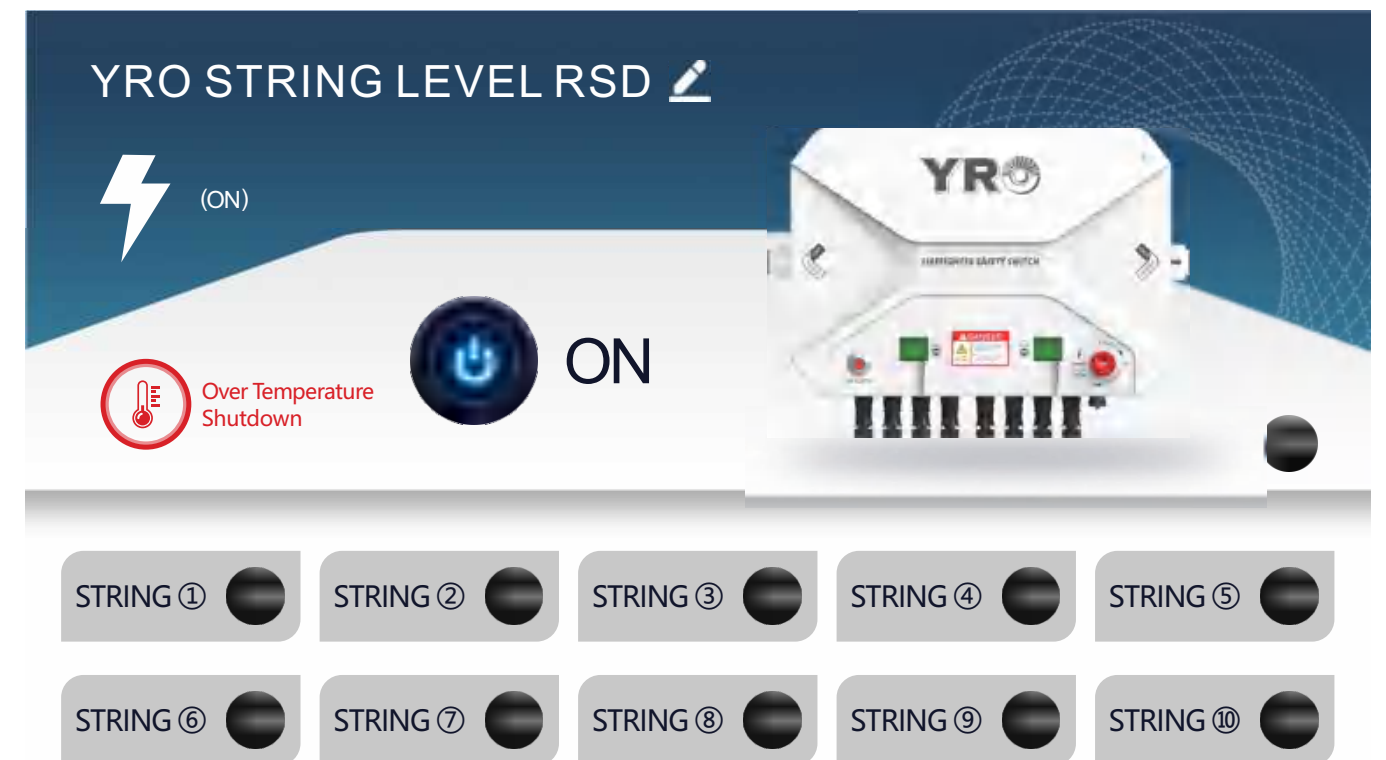


Maintenancers or homeowners can also remotely shutdown through RS485 communication (Optional)



**YRO**  
Product video  
Scan code to view

### App menu:



### Technical Date

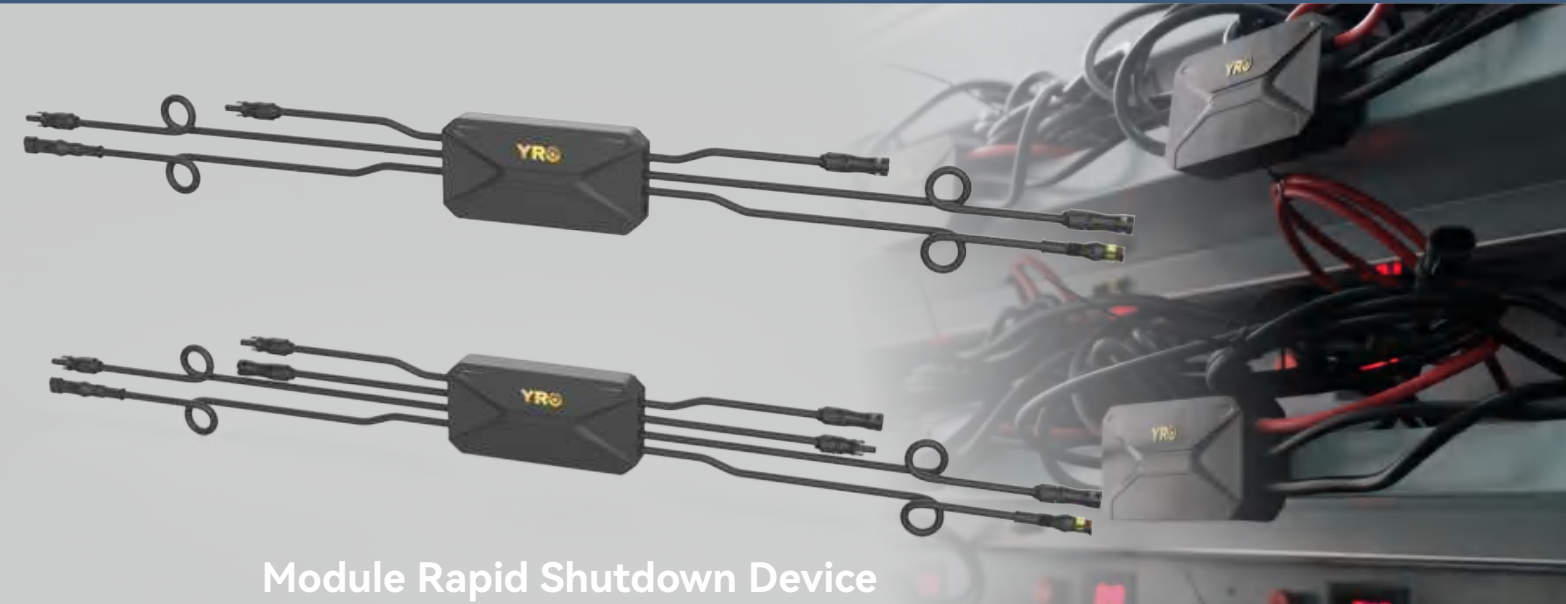
### Technical Parameter

Type Code:	YRSD-xA/wifi; x=1~10 Strings	
String Voltage:	DC1000V	DC1500V
String Current:	32A(40A optional)	26A
Rated Voltage:	AC230V~	
Operation Voltage:	AC100-270V~	
Operation Temp:	-40~+85°C	
Protection Temp:	+70°C	
Protection Level:	IP66	
Standard:	IEC 60947-1&3/NEC 2014	
Communication:	2.4G wifi/RS485	
App:	Smart Home	



# Module Rapid Shutdown Device

The Module Rapid Shutdown has been especially developed as a safety device for PV installations. The RSD is used to disconnect each solar cells in case of an emergency situation. Such an emergency situation could be in case of fire.



The Rapid Shutdown needs to be placed as close to the solar panels as possible. The whole set-up is conformed to IP68 which makes it suitable for outdoor usage when needed



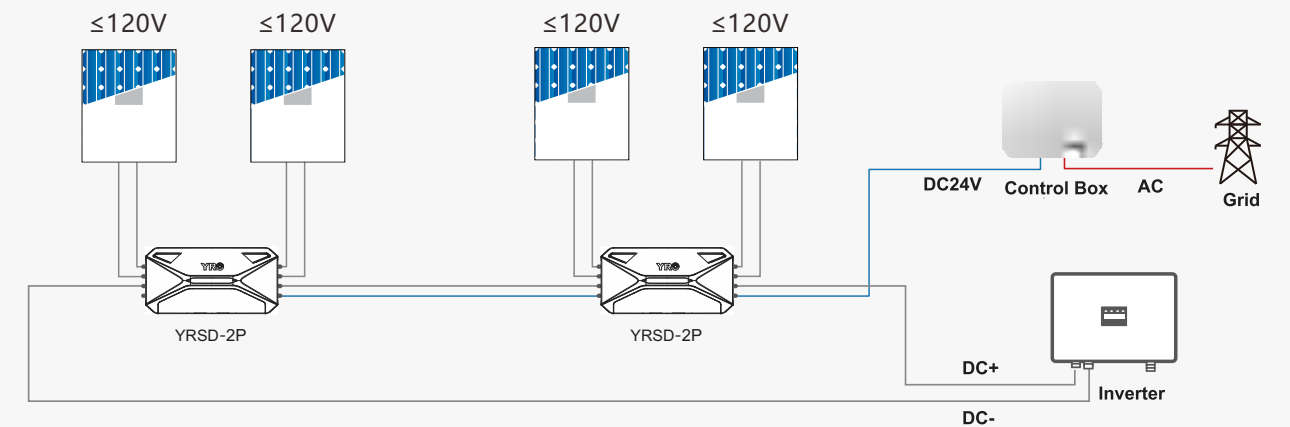
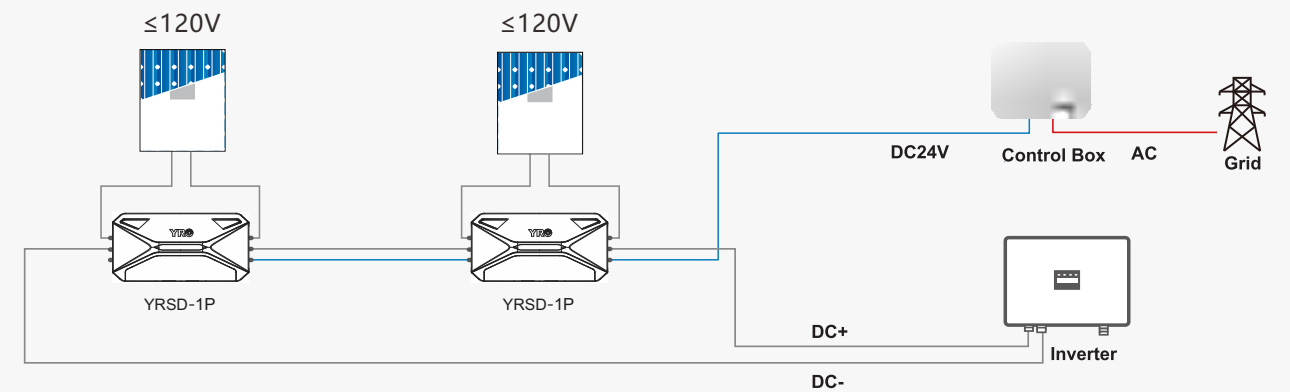
**YR**  
Product video  
Scan code to view

## Technical Date

## Technical Parameter

Type Code:	YRSD-1P ; YRSD-2P
Max String Voltage:	DC1500V
Max PV input Voltage:	120V
Max output Voltage:	120V for YRSD-1P/ 240V for YRSD-2P
Max PV input current:	18A/20A/25A
Rated Voltage:	AC230V~
Operation Voltage:	AC100-270V~
Operation Temp:	-40~+60°C
Protection Temp:	+85°C
Protection Level:	IP68
Standard:	UL1741/NEC 2017&2020
Control Compliance:	24Vdc+2×1.5mm <sup>2</sup> Cable
Control Requirements:	21.6~26.4V at nomi. 27~36mA/Unit

## • Diagram



Not: For NEC 2017 /2010 compliance PV panels should be <40v for 2-to-1 wiring and >=40v for 1-to-1 wiring (For YRSD -1P)

# Module RSD Control Box

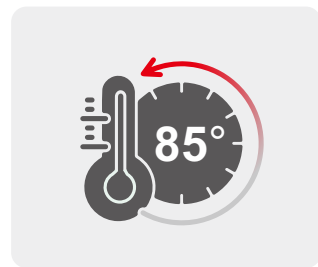
The Module Rapid Shutdown control box is used to turn ON/OFF the module level rapid shutdown device. It contains the indicator light and emergency button.



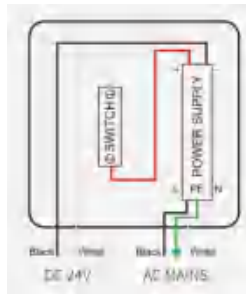
Module RSD Control Box



Module RSD Control Box



Temperature Rise Trigger



Diagram

# YR

Your Reliable Option

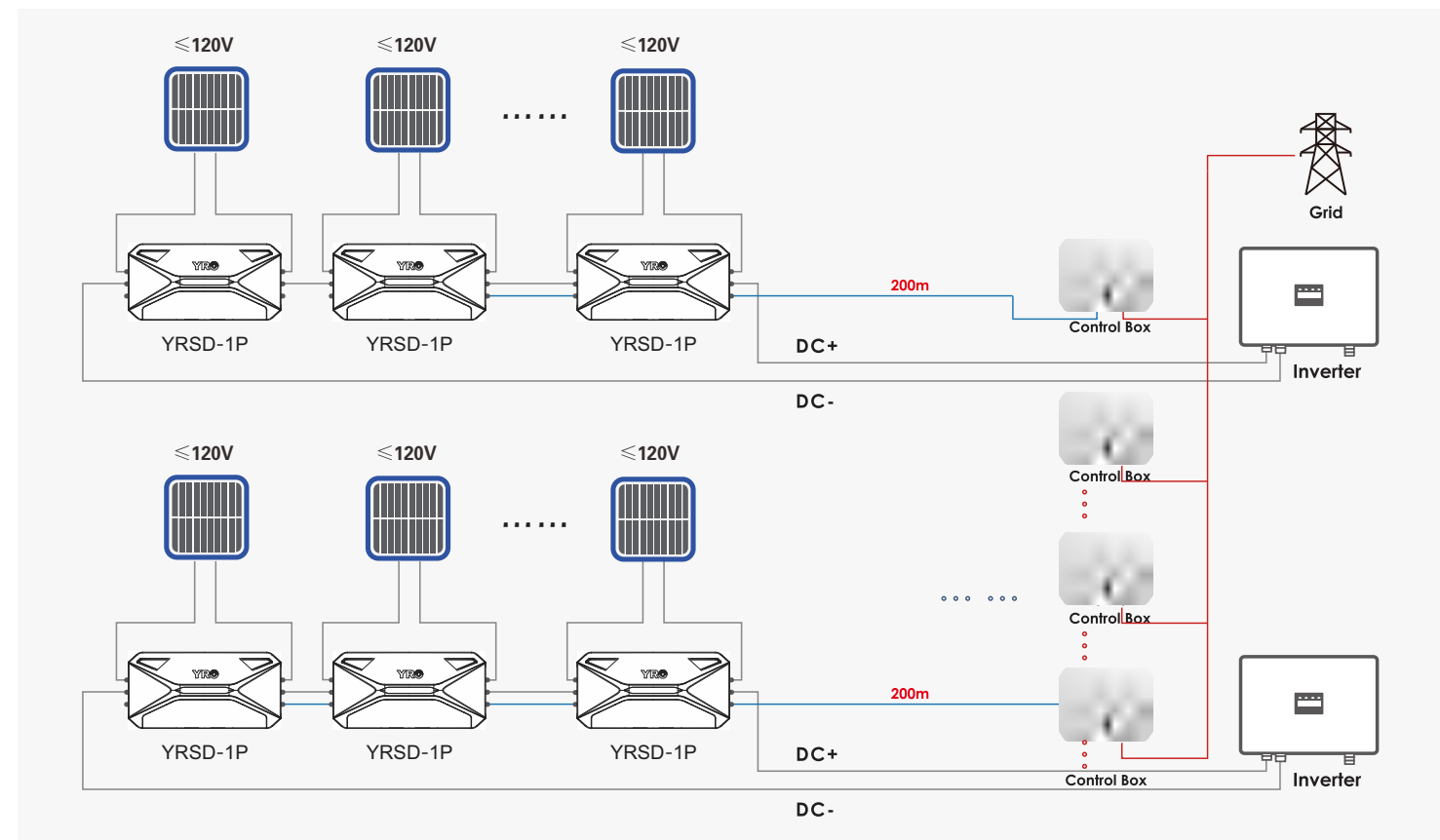
## Technical Date

Type Code:  
Operating AC Voltage:  
Frequency:  
Output Voltage:  
Output Current/Power:  
DC24V Control Cable Size:  
Mounting:  
Control Unit:  
DC24V Control Cable optional:  
Protection Level:  
Max Distance(Last RSD to control box):  
Operating temperature range:

## Technical Parameter

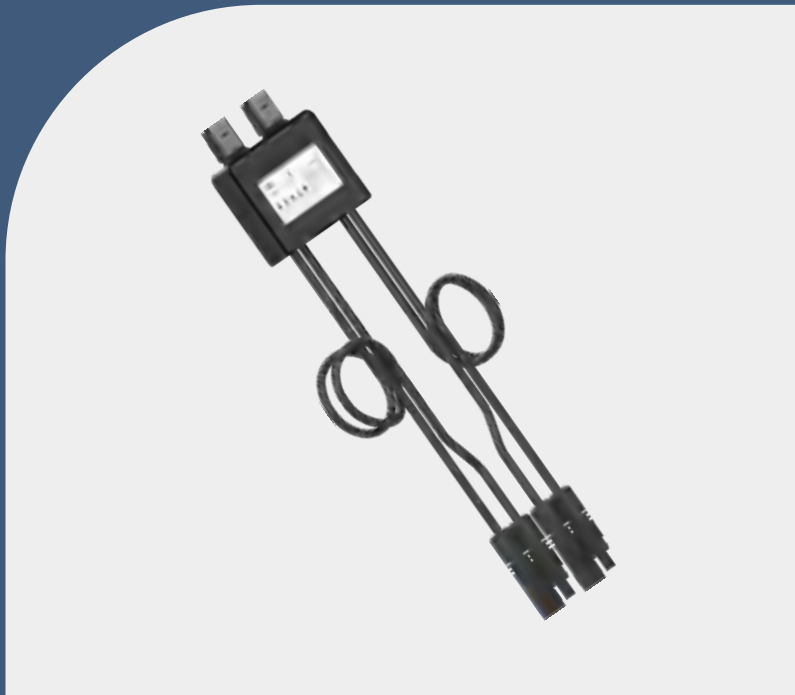
YRSD-CB  
100~240Vac  
50/60Hz  
DC24V  
1.5A/36W  
2×1.5mm<sup>2</sup>  
Wall mounting  
YRSD-1P 60pcs/ YRSD-2P 30pcs  
10m/20m/30m/40m/50m/100m  
IP66  
200m  
-30~+70°C

## Diagram:





# YHQ-600 Solar Optimizer



# Monitor & DC Arc Fault Detector

DC monitor products are mainly used in DC power transmission and distribution, such as photovoltaic combiner boxes, DC cabinets. Main function:

Real-time monitoring of the generation current, voltage, temperature of the combiner box, lightning arrester status, DC circuit breaker status, and DC Arc Fault status of each photovoltaic string in the combiner box, and communicate with the host computer through Rs485.

**YRO** Your Reliable Option

Technical Date	Technical Parameter
Type Code:	YHQ-600
Maximum Input Power:	600W
Operating Voltage Range:	3~70V
Maximum Input Current:	15A
MPPT Voltage Range:	8~70V
Over-current Protection:	18A
Over-temperature Protection:	160°C
Maximum Output Current:	17A
Output Voltage Limiting Threshold:	42V
Total Maximum System Voltage:	1500V
Peak Conversion Efficiency:	99.5%
Operating Temperature Range:	-40°C~ +85°C
Protection Degree:	Ip68
Monitor:	PLC gateway(optional)
Communication:	2.4G wifi/RS485(optional)

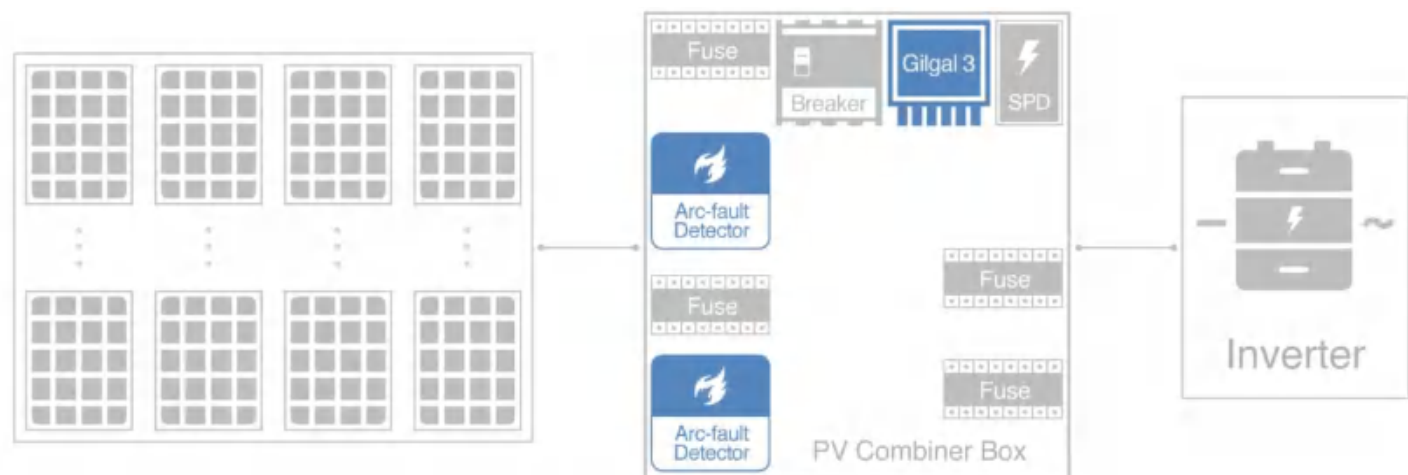
Technical Date	Technical Parameter
Max system Voltage:	DC1500V
Hall sensor:	20A(default)/30A/60A
Communication:	Channels:
Channels:	Max 32 channels
Monitor:	String Current/String Voltage/ Arc Fault/Temperature/Switch Status

## YHQ-600

\*72 Type 370Wp Mono Module, 1100V Inverter



## Application Diagram:

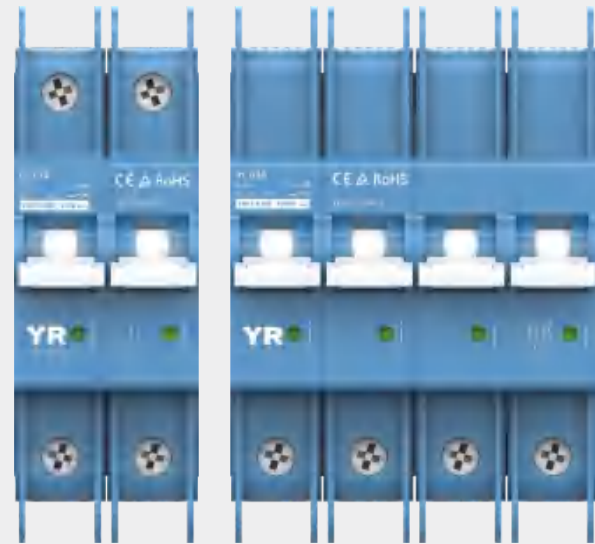




# YRL7-63DC

## Miniature Circuit Breaker

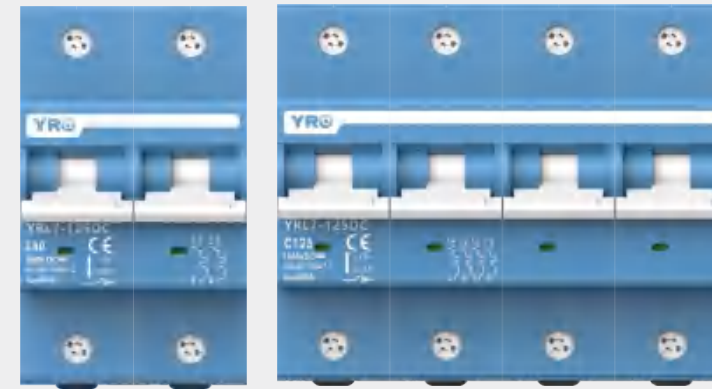
**YR** Your Reliable Option



# YRL7-125DC

## Miniature Circuit Breaker

**YR** Your Reliable Option



• Non-polarity Type

• High temperature resistance

• COLD AND HEATRESISTANT



Your Reliable Option

• Non-polarity Type

• High temperature resistance

• COLD AND HEATRESISTANT



Your Reliable Option

### Technical Date

### Technical Parameter

Type Code:	YRL7-63DC
Rated Current Ie:	6/10/16/20/25/32/40/50/63A
Rated Voltage Ue:	1P 300V/2P 600V(800V optional)/3P 900V/4P 1200V
Breaking Capacity:	6kA (2P 800V 4.5kA)
Rated Impact voltage Uimp:	8kV
Curve type:	B/C/D
Trip type:	Thermal release, magnetic release
Mechanical:	20000 times
Electrical life:	1000 times
Ambient temperature:	-20 ~ 70°C
Altitude:	≤2000m
Recommend Wiring capacity:	32A→4mm <sup>2</sup> /40A→6mm <sup>2</sup> /50A→10mm <sup>2</sup> /63A→16mm <sup>2</sup>

### Technical Date

### Technical Parameter

Type Code:	YRL7-125DC
Rated Current Ie:	80/100/125A
Rated Voltage Ue:	1P 250V/2P 550V(800V optional)/3P 750V/4P 1000V
Breaking Capacity:	6kA (2P 800V 4.5kA)
Rated Impact voltage Uimp:	8kV
Curve type:	B/C/D
Trip type:	Thermal release, magnetic release
Mechanical:	20000 times
Electrical life:	1000 times
Ambient temperature:	-20 ~ 70°C
Altitude:	≤2000m
Recommend Wiring capacity:	80A→16mm <sup>2</sup> /100A→25mm <sup>2</sup> /125A→35mm <sup>2</sup>

# YRM1Z

## DC Mold Case Circuit Breaker

Altitude: ≤2000m



Rated Current Ie:	63/80/100/125/160/200/250/315/350/400/630/800/1000/1250A
Rated Voltage Ue:	1P 250V/2P 550V/3P 750V/4P 1000V
Breaking Capacity:	25kA
Rated Impact voltage Uimp:	8KV
Standard:	IEC 60947-2
Trip type:	Thermal release, magnetic release
Mechanical:	20000 times
Electrical life:	1000 times
Ambient temperature:	-20 ~ 70°C
Accessories	Auxiliary .Alarm,Shunt release,Manually operated and electric operation

# YRSP-D2 T2

## PV Surge Protective Device



Max Voltage Ucpv:	2P 600/800/1000V; 3P 1000/1200/1500V	Accessories:	Remote signal contact
Normal discharge current In:	20kA	Standard:	5/20μs Type II
Max discharge current Imax:	40kA		
Up:	2.8~5.2kV		
Technology:	MOV		
Insulation:	PVC hot dip molding		
Wiring capacity:	4~16mm <sup>2</sup>		
Replace:	module replacement		
Ambient temperature:	-30 ~ +70°C		
Altitude:	≤2000m		

# YRM3DC-HU

## DC Mold Case Circuit Breaker

Altitude: ≤2000m



Rated Current Ie:	63/80/100/125/160/200/250/320/400/630/800A
Rated Voltage Ue:	2P 1000V/1500V
Breaking Capacity:	20kA
Rated Impact voltage Uimp:	12kV
Standard:	IEC 60947-2
Trip type:	Thermal release, magnetic release
Mechanical:	20000 times
Electrical life:	3000 times
Ambient temperature:	-35 ~ +70°C
Accessories	Auxiliary .Alarm,Shunt release,Manually operated and electric operation.

# YRSP-D2 T1+T2

## PV Surge Protective Device



Max Voltage Ucpv:	2P 600/800/1000V; 3P 1000/1200/1500V	Altitude:	≤2000m
Normal discharge current In:	20kA	Accessories:	Remote signal contact
Max discharge current Imax:	50kA	Standard:	IEC 61643-31
Up:	2.2~5.2kV	Classified:	5/20μs+10/350μs Type I+II
Iimp:	6.25kA	Insulation:	Insulation
Technology:	MOV		
total:	12.5kA		
Wiring capacity:	4~16mm <sup>2</sup>		
Replace:	module replacement		
Ambient temperature:	-30 ~ +70°C		



### YROPV-30 DC Fuse 1000V

Rated Current: 1/2/3/4/5/6/8/10/12/15/20/25/30/32A	Breaking Capacity: 20kA	Breaking Capacity: 20kA
Fuse size: 10×38mm	Power Consumption: 3.5W	
Standard: IEC 60269-6	Altitude: ≤2000m	
Ambient temperature: -30 ~ +70°C	Relative Humidity <95%	
Fuse Holder: YROPV-32B	Rated Current: 32A	
Insulation voltage: DC1100V	Standard: IEC 60947-3	
Rated Voltage: DC1000V		



### YROPV-63H DC Fuse 1500V

Rated Current: 40/50/63A	Rated Voltage: DC1500V
Breaking Capacity: 20kA	Power Consumption: 14W
Fuse size: 14×65mm	Fuse Type: gPV
Standard: IEC 60269-6	Altitude: ≤2000m
Fuse Holder: YROPV-63HB	Rated Current: 63A
Insulation voltage: DC1500V	Standard: IEC 60947-3



### YROPV-63 DC Fuse 1000V

Rated Current: 40/50/63A	Rated Voltage: DC1000V
Breaking Capacity: 20kA	Power Consumption: 7W
Fuse size: 14×51mm	Fuse Type: gPV
Standard: IEC 60269-6	Altitude: ≤2000m
Ambient temperature: -30 ~ +70°C	Relative Humidity <95%
Fuse Holder: YROPV-63B	
Rated Current: 63A	Insulation voltage: DC1100V
Standard: IEC 60947-3	



### YRDS1DB/N32 DC ISOLATOR SWITCH 1000V

Rated Thermal Current: 32A	Rated Voltage: DC1200V				
Utilization category: DC-PV1/DC-PV2	Standard: IEC 60947-3				
Rated Voltage (PV-2):	300V	600V	800V	1000V	1200V
2P Rated Current:	32A	32A	16A	9A	9A
4P 2string Rated Current:	32A	32A	16A	9A	9A
4P in 4S Rated Current:	32A	32A	32A	32A	32A
Standard: IEC 60947-3					

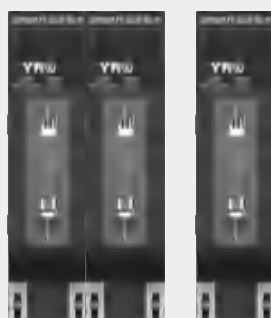
#### Switching Configurations

Type	2-pole	4-pole	4-pole with Input and Output on top	4-pole with Input and Output bottom	4-pole with Input on top Output bottom
-	2	4	4T	4B	4S
Contacts Wiring graph					
Switching example					



### YROPV-160(NH00) Battery Fuse Disconnecter

Rated Current Ie: 32/40/63/80/100/125/160A	Rated Voltage Ue: 60V/1000V	Breaking Capacity: 50kA
Fuse size: NH00	Power Consumption: 12W	
Standard: IEC 60269-7	Fuse Type: gBat	
Ambient temperature: -30 ~ +70°C	Relative Humidity <95%	
Fuse Holder: YROPV-160B	Rated Current: 160A	
Insulation voltage: DC1000V	Standard: IEC 60947-3	
Installation way: din-rail/ panel mounting		



### YROPV-250(NH1) Battery Fuse Disconnecter

Type: YROPV-250(NH1)/YROPV-400(NH2)/YROPV-630(NH3)	Rated Current: 200/250/315/350/400/500/630A	Breaking Capacity: 20kA
Power Consumption: 32W~50W	Fuse size: NT1/NT2/NT3	
Fuse Type: gBat	Standard: IEC 60269-7	
Ambient temperature: -30 ~ +70°C	Altitude: ≤2000m	
Fuse Holder: YROPV-32B	Relative Humidity <95%	
Rated Current: YROPV-250B/YROPV-400B/YROPV-630B		
Rated Voltage: DC1000V	Standard: IEC 60947-3	

## YRDS1EL/N32 DC ISOLATOR SWITCH 1000V



### Technical Date

Rated Thermal Current: 32A	Rated Voltage: DC1200V				
Utilization category: DC-PV1/DC-PV2	Protection Level: IP66				
Rated Voltage:	300V	600V	800V	1000V	1200V
2P Rated Current:	32A	32A	16A	9A	9A
4P 2string Rated Current:	32A	32A	16A	9A	9A
4P in 4S Rated Current:	32A	32A	32A	32A	32A
Standard: IEC 60947-3					



### YROPV-32H DC Fuse 1500V

Rated Current: 2/4/6/8/10/12/15/20/25/30/32A	Breaking Capacity: 20kA	Rated Voltage: DC1500V
Fuse size: 10×85mm	Power Consumption: 7W	
Fuse Type: gPV	Standard: IEC 60269-6	
Altitude: ≤2000m	Ambient temperature: -30 ~ +70°C	
Relative Humidity <95%	Fuse Holder: YROPV-32HB	
Rated Current: 32A	Insulation voltage: DC1500V	
Standard: IEC 60947-3		



### YRDS1x/S32 DC ISOLATOR SWITCH 1500V

Rated Thermal Current: 55A	Rated Voltage: DC1500V
Breaking Capacity: 20kA	Standard: IEC 60947-3
Utilization category: DC-PV1/DC-PV2	
x=DB/EL/PM	
DB=Din-rail install; EL=waterproof enclosure; PM=panel mounting	
Rated impulse withstand voltage Uimp: 8kV	
Electrical Life: 3000 Cycles	Mechanical Life:10000 Cycles
Distance of contacts (per pole): 8mm	Operation temperature: -40°C to +85°C
IP rating: DB/PM→IP20; EL→IP66	

#### DC-PV1:

Rated Voltage:	600V	800V	1000V	1200V	1500V
2/4/6/8/10P Rated Current:	55A	55A	50A	40A	30A
4T/B/S Rated Current:	55A	55A	55A	55A	55A
3T/6T/9T Rated Current:	55A	55A	55A	55A	55A
2H Rated Current:	100A	55A	50A	40A	30A
3H Rated Current:	/	100A	50A	40A	30A
4H Rated Current:	/	/	100A	40A	30A

#### DC-PV2:

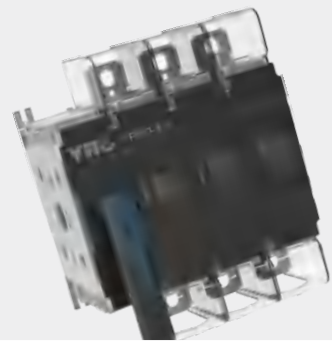
Rated Voltage:	600V	800V	1000V	1200V	1500V
2/4/6/8/10P Rated Current:	55A	50A	40A	32A	18A
4T/B/S Rated Current:	55A	55A	50A	40A	36A
3T/6T/9T Rated Current:	/	/	50A	45A	36A



1500V

### YRHD-315 DC ISOLATOR SWITCH

1500V



#### Technical Date

Thermal Current Ith: 315A	Rated Voltage: DC1500V
Utilization category: DC-PV1/DC-PV2	Protection Level: Ip20
Rated impulse withstand voltage Uimp: 12kV	Standard: IEC 60947-3

#### DC-PV1/DC-21B

Ith:	160A	250A	315A
1000V 2P:	160A	250A	315A
1500V 2P:	160A	250A	315A

#### DC-PV2

1000V 2P:	160A	250A	315A
1500V 2P:	100A	160A	250A
1500V 3P:	160A	250A	315A
Recommended Cable(mm <sup>2</sup> ):	70	120	185
Electrical Life: 1000 Cycles	Mechanical Life:8000 Cycles		

### YRL7i-63DC DC Isolator Switch

Rated Current: 16/32/40/63A	Insulation voltage Ui: 1000V
Rated Voltage Ue: 1P 250V/2P 550V/3P 750V/4P 1000V	
Standard: IEC 60947-3	Rated Impact voltage Uimp: 4kV
Mechanical: 20000 times	Electrical life:2000 times
Ambient temperature: -20 ~+7 0C	Pole:1P/2P/3P/4P



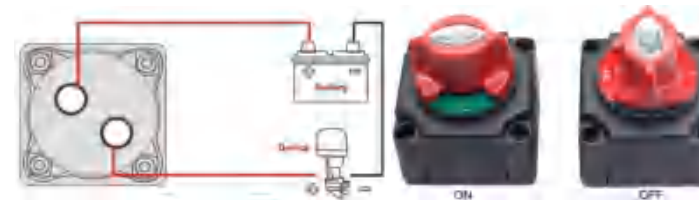
### YRBS Battery Rotary Switch



This item is widely used in all kinds of RV ,boats , winch power cable, both apply to the inside or the outside electrical equipment's switch ,such as flashing light chassis light, fog light, dome light and so on.

#### Technical Date

Operation Voltage Ue: 12~48V	Electric Current: 100~300A		
Current Rating: 275A/12Vdc; 150A/24Vdc; 75A/48Vdc			
Operation: On/Off	Mounting Screw Diameter: 10mm		
Ambient temperature: -20 ~ 70°C	Altitude:≤2000m		
Type:	YRBS-1	YRBS-2	YRBS-3
Continuous Rating:	275A	600A	200A
Intermittent Rating:	455A	/	455A
Cranking Rating:	1250A	2500A	1250A
Operation Type:	ON/OFF	ON/OFF	I-II-(I+II)-O



Type: YRBS-1&2

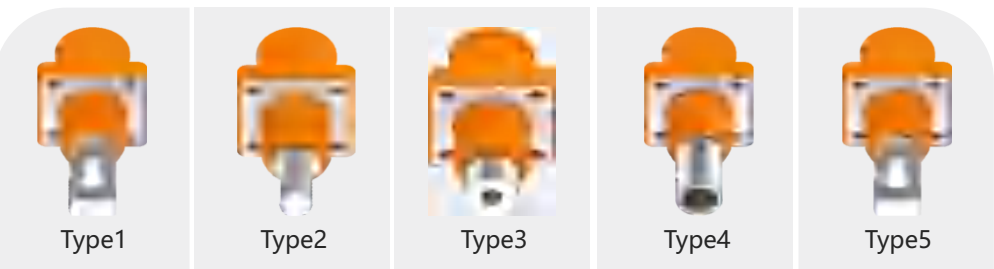


Type: YRBS-3



### Energy storage connector

Rated Voltage:DC1000V	Contact resistance : 0.2mΩ							
Protection Level: UL94 V-0/ IP67	Insulation Material: PA66							
Temperature Range:-40 ~ +125°C	Mechanical Life:500 Cycles							
Insertion Force: < 75N	Conductor: Copper silver plated							
Rated Current:	70A	100A	120A	150A	200A	250A	300A	400A
Conductor(mm²):	16	25	35	16	50	95	120	185
Terminal hole(mm):	6	6	6	8	8	12	12	12



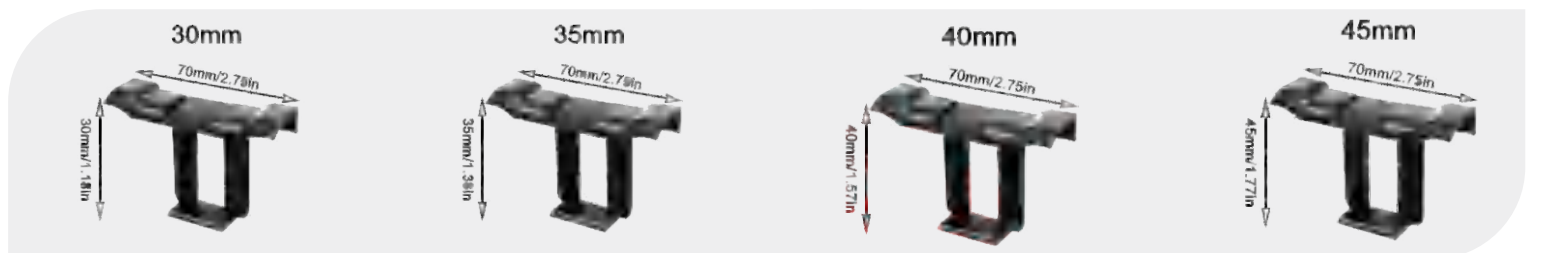
### Cable Stripper



- Type Code: WX-0626 (0.6~2.6mm²)
- Used to peel off the insulation sheath on the wire

### Solar Panel Water Drainage Clips

- It's used to remove the dust and drainage the water on the solar panels.
- For 25/30/35/40/45mm thickness Panel Frame.



### MC4 Connector Wrench

- Muti-function for Photovoltaic connector 1000V and 1500V
- It's used to connect and disconnect the MC4 connectors.

### SUS304 Stainless cable clip



- It's used to mount the solar cables on the solar panels.
- Suitable for 4&6mm² solar cable and contains 2 cables/3 cables/4 cables type optional

### MC4 Connector Crimping Tool

- Type Code: A2546B
- Muti-function for Photovoltaic connector 1000V and 1500V.
- It's used to Crimp the MC4 connectors

### YRMI-300W Micro Inverter

DC input: 20-50Vdc	MPPT Track: 16-48Vdc
AC output: 120/230V (optional)	AC Cable: 2m/3×1.5mm
Wifi App: TUYA/Smart Home	Frequency: 48-60Hz
Max input current: 12A	Solar Panel:(200-420w)
Maximum Units per Branch: 120VAC:5units/230VAC: 10units	

### Cable Cutter

- Type Code: WX-206
- t's usd to cut the cables

### YRMI-400W Micro Inverter

DC input: 20-50Vdc	MPPT Track: 16-48Vdc
AC output: 120/230V (optional)	AC Cable: 2m/3×1.5mm
Wifi App: TUYA/Smart Home	Frequency: 48-60Hz
Max input current: 16A	Solar Panel:(200-560w)
Maximum Units per Branch: 120VAC:5units/230VAC: 10units	

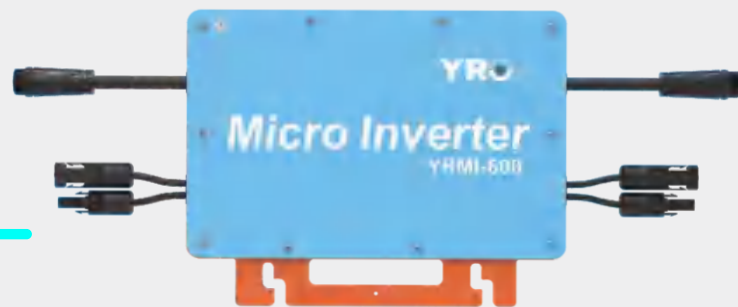
### Cable Stripper

- Type Code: WX-700B(1~3.2mm²); WX-700M(2.5~6mm²)
- Used to peel off the insulation sheath on the wire.





## YRMI-600W IP67 Micro Inverter



### YRMI-600W IP67 Micro Inverter

DC input: 20-50Vdc	MPPT Track: 22-48Vdc
AC output: 120/230V (optional)	AC Cable: 2m/3×1.5mm
Wifi App: TUYA/Smart Home	Frequency: 48-60Hz
Max input current: 12A×2	Solar Panel:(200-420w)×2
Maximum Units per Branch: 120VAC:5units/230VAC: 10units	

### YRMI-600W IP67 Micro Inverter

DC input: 20-50Vdc	MPPT Track: 22-48Vdc
AC output: 120/230V (optional)	AC Cable: 2m/3×1.5mm
Wifi App: TUYA/Smart Home	Frequency: 48-60Hz
Max input current: 16A×2	Solar Panel:(200-500w)×2
Maximum Units per Branch: 120VAC:3units/230VAC: 6units	

### YRMI-700W IP67 Micro Inverter

DC input: 20-50Vdc	MPPT Track: 22-48Vdc
AC output: 120/230V (optional)	AC Cable: 2m/3×1.5mm
Wifi App: TUYA/Smart Home	Frequency: 48-60Hz
Max input current: 14A×2	Solar Panel:(200-460w)×2
Maximum Units per Branch: 120VAC:3units/230VAC: 6units	

## Micro Inverter

## YRMI-1200W IP67 Micro Inverter



### YRMI-1200W IP67 Micro Inverter

DC input: 18-60Vdc	MPPT Track: 22-48Vdc
AC output: 120/230V (optional)	AC Cable: 2m/3×1.5mm
Wifi App: TUYA/Smart Home	Frequency: 48-60Hz
Max input current: 12A×4	Solar Panel:(200-420w)×4
Maximum Units per Branch: 120VAC:2units/230VAC: 3units	

### YRMI-1400W Micro Inverter

DC input: 18-60Vdc	MPPT Track: 22-48Vdc
AC output: 120/230V (optional)	AC Cable: 2m/3×1.5mm
Wifi App: TUYA/Smart Home	Frequency: 48-60Hz
Max input current: 14A×4	Solar Panel:(200-460w)×4
Maximum Units per Branch: 120VAC:2units/230VAC: 3units	

### YRMI-1600W Micro Inverter

DC input: 18-60Vdc	MPPT Track: 22-48Vdc
AC output: 120/230V (optional)	AC Cable: 2m/3×1.5mm
Wifi App: TUYA/Smart Home	Frequency: 48-60Hz
Max input current: 15A×4	Solar Panel:(200-500w)×4
Maximum Units per Branch: 120VAC:2units/230VAC: 3units	

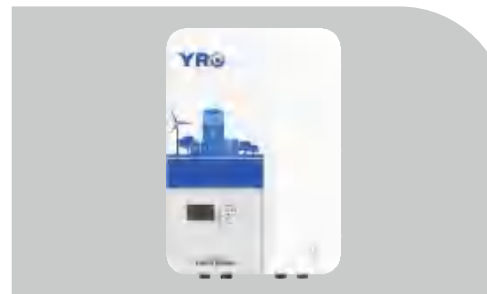
### YRMI-2000W Micro Inverter

DC input: 18-60Vdc	MPPT Track: 22-48Vdc
AC output: 120/230V (optional)	AC Cable: 2m/3×1.5mm
Wifi App: TUYA/Smart Home	Frequency: 48-60Hz
Max input current: 16A×4	Solar Panel:(200-600w)×4
Maximum Units per Branch: 120VAC:2units/230VAC: 3units	



### Stacked FeLiPO4 Battery

Rated Voltage: 51.2Vdc	BMS: with BMS
Battery Capacity: 100/200/300/400/500AH	Suggest DOD: 80%
Power Capacity: 5.12/10.24/15.36/20.48/25.6/30.72kwh	
Cycle life: 6000times at 0.2C	Warranty: 5 years
Max Charge&Discharge Current: 100A(default)/200A(Optional)	



### Wall Mounting FeLiPO4 Battery

Rated Voltage: 51.2Vdc	BMS: with BMS
Battery Capacity: 100/200AH	Communication: Bluetooth(optional)
Wifi App: TUYA/Smart Home	Suggest DOD: 80%
Cycle life: 6000times at 0.2C	Warranty: 5 years
Max Charge&Discharge Current: 100A(default)/200A(Optional)	

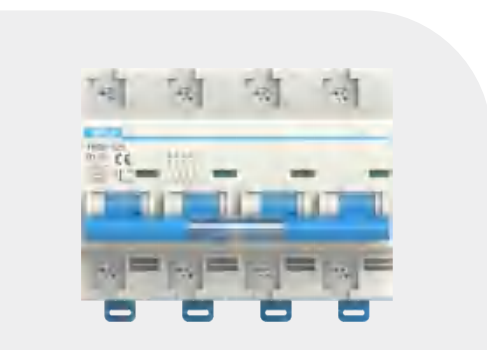
### YRL7-63 Miniature Circuit Breaker

Rated Current Ie: 6/10/16/20/25/32/40/50/63/80/100A	Rated frequency: 50/60Hz
Rated Voltage Ue: 1P 230V; 2P 230/400V; 3P/4P 400V;	
Type Code:	YRL7-63      YRL7-63Pro
Breaking Capacity:	6kA      10kA
Standard: IEC 60269-6	230/400V~      240/415V~
Curve type: B/C/D	Trip type: Thermal trip, magnetic trip
Mechanical: 20000 times	Electrical life: 8000 times
Ambient temperature: -20 ~ +70°C	Standard: IEC 60898-1
Recommend Wiring capacity: 32A→4mm²/40A→6mm²/50A→10mm²/63A→16mm²	



### YRCB-125 Miniature Circuit Breaker

Rated Current Ie: 80/100/125A	Rated frequency: 50/60Hz
Rated Voltage Ue: 230/400V~	Insulation voltage Ui: 500V
Breaking Capacity: 10kA	Rated Impact voltage Uimp: 4kV
Curve type: B/C/D(default)	Trip type: Thermal trip, magnetic trip
Mechanical: 20000 times	Electrical life: 1500 times
Ambient temperature: -20 ~ +70°C	Standard: IEC 60947-2
Recommend Wiring capacity: 80A→16mm²/100A→25mm²/125A→35mm	



### YRM1 Mold Case Circuit Breaker

Rated Current Ie: 63/80/100/125/160/200/250/315/350/400/630/800/1000/1250A	Insulation voltage Ui: 690
Rated Voltage Ue: 230/400V~	Rated Impact voltage Uimp: 8kV
Breaking Capacity: 25kA	Trip type: Thermal trip, magnetic trip
Standard: IEC 60947-2	Electrical life: 2000 times
Mechanical: 20000 times	Altitude: ≤2000m
Ambient temperature: -20 ~ +70°C	

Accessories: Auxiliary .Alarm,Shunt release,Manually operated and electric operation.

### YRM3-HU Mold Case Circuit Breaker

Rated Current Ie: 63/80/100/125/160/200/250/320/400/630/800A	Insulation voltage Ui: 1140V~
Rated Voltage Ue: 415/800/1140V~	Rated Impact voltage Uimp: 12kV
Breaking Capacity: 36.5~85kA	Trip type: Thermal /magnetic release
Standard: IEC 60947-2	Electrical life: 1000 times
Mechanical: 5000 times	Altitude: ≤2000m
Ambient temperature: -35 ~ +70°C	

Accessories: Auxiliary,Alarm,Shunt release,Manually operated and electric operation.

### YRL7-63LE Residual Current Circuit Breaker Operator

Rated Current Ie: 6/10/16/20/25/32/40/50/63A	Rated frequency: 50/60Hz
Mode: Electronic(default)/ Electromagnetic(optional)	
Breaking Capacity: 6kA	Residual Operating Current:30/100/300ma
Rated Voltage: 230/400V	Insulation voltage Ui: 500V
Curve type: B/C/D	Type AC (default) Type A
Mechanical: 10000 times	Electrical life: 4000 times
Ambient temperature: -20 ~ +70°C	Standard: IEC 61009-1
Pole: 1P+N for single phase/3P+N for triple phase	

### YRCB-63LB Residual Current Device

Rated Current Ie: 25/40/63/100A	Rated frequency: 50/60Hz
Pole: 1P+N for single phase/3P+N for triple phase	
Breaking Capacity: 6kA	Residual Operating Current:30/100/300ma
Rated Voltage: 230/400V	Insulation voltage Ui: 500V
Type AC (default) Type A Type B	
Mechanical: 4000 times	Electrical life: 2000 times
Ambient temperature: -20 ~ +70°C	Standard: IEC 61008-1
Recommend Wiring capacity: 32A→4mm <sup>2</sup> /40A→6mm <sup>2</sup> /50A→10mm <sup>2</sup> /63A→16mm <sup>2</sup>	

### YRSP-A2 T2 Surge Protective Device

Max Voltage Uc: 1P/2P 275/385/420V; 3P/4P 275/385/420/440/480V	Max discharge current I <sub>max</sub> : 50/60kA
In: 5/10/20/30/40kA	U <sub>imp</sub> : 7/12.5kV
Up: 1.2~2.5kV	Type of Network: TT, TN
Technology: MOV	Rated frequency: 50/60Hz
Wiring capacity: 4~16mm <sup>2</sup>	Altitude: ≤2000m
Ambient temperature: -30 ~ +70°C	Standard: IEC 61643-11
Accessories: Remote signal contact	Insulation: PVC hot dip molding
Classified: 5/20μs+10/350μs Type I+II	



### YRSP-A12 T1+T2 Surge Protective Device

Max Voltage Uc: 1P/2P 275/385/420V; 3P/4P 275/385/420/440/480/600V	Max discharge current I <sub>max</sub> : 50/60kA
Normal discharge current I <sub>n</sub> : 20/30kA	U <sub>imp</sub> : 7/12.5kV
Up: 1.7kV	Type of Network: TT, TN
Technology: MOV	Rated frequency: 50/60Hz
Wiring capacity: 4~16mm <sup>2</sup>	Altitude: ≤2000m
Ambient temperature: -30 ~ +70°C	Standard: IEC 61643-11
Accessories: Remote signal contact	Insulation: PVC hot dip molding
Classified: 5/20μs+10/350μs Type I+II	

### YRSP-A1 T1 Surge Protective Device

Max Voltage Uc: 1P/2P 275/385/420V; 3P/4P 275/385/420/440/480/600V	U <sub>imp</sub> : 1.0~2.5kV
Normal discharge current I <sub>n</sub> : 25/100kA	I <sub>max</sub> (5/20μs): 100kA
Max impulse current I <sub>imp</sub> : 25/50/100kA	Type of Network: TN-C, TN-S, TT
Technology: Spark Gap/MOV	Rated frequency: 50/60Hz
Wiring capacity: 4~35mm <sup>2</sup>	Altitude: ≤2000m
Ambient temperature: -30 ~ +70°C	Standard: IEC 61643-11
Accessories: Remote signal contact	
Classified: 10/350μs Type I	



### R015&RT18-32X Fuse

Rated Current: 1/2/3/4/5/6/8/10/12/15/20/25/30/32A	Rated Voltage: AC500V
Breaking Capacity: 50kA	Rated Voltage: AC500V
Fuse size: 10×38mm	Fuse Type: gG
Standard: IEC 60269-2	Altitude: ≤2000m
Ambient temperature: -30 ~ +70°C	Rated frequency: 50/60Hz
Fuse Holder: YROPV-32B	Material: PBT
Rated Current: 32A	Insulation voltage: 690V
Standard: IEC 60947-3	



### R016&RT18-63X Fuse

Rated Current: 40/50/63A	Rated Voltage: AC500V
Breaking Capacity: 50kA	Power Consumption: 7W
Fuse size: 14×51mm	Fuse Type: gG
Standard: IEC 60269-2	Altitude: ≤2000m
Ambient temperature: -30 ~ +70°C	Rated frequency: 50/60Hz
Fuse Holder: RT18-63X	Material: PBT
Rated Current: 63A	Insulation voltage: 690V
Standard: IEC 60947-3	



### R017&RT18-125 Fuse

Rated Current: 80/100/125A	Rated Voltage: AC500V
Breaking Capacity: 50kA	Power Consumption: 14W
Fuse size: 22×58mm	Fuse Type: gG
Standard: IEC 60269-2	Altitude: ≤2000m
Ambient temperature: -30 ~ +70°C	Rated frequency: 50/60Hz
Fuse Holder: RT18-125	Material: PA6+Resin
Rated Current: 125A	Insulation voltage: 690V
Standard: IEC 60947-3	





### NT00/NT1/NT2/NT3/NT4 Knife Fuse

Rated Current: 63/80/100/125/160/200/250/400/630/800A	Breaking Capacity: 120kA	Breaking Capacity: 120kA
Fuse size: NH00/NH1/NH2/NH3/NH4	Fuse Type: gG	
Standard: IEC 60269-2	Altitude: ≤2000m	
Ambient temperature: -30 ~ +70°C	Rated frequency: 50/60Hz	
Fuse Holder: NT00/NT1/NT2/NT3/NT4	Material: PA6	
Rated Current: 160~800A	Insulation voltage: 690V	
Standard: IEC 60947-3	Rated Voltage: AC500V	



16-40A



63-80A

### YRAS80 AC Isolator Switch

Rated Thermal Current: 16/20/25/32/40/63/80/100/125A Pole: 3P/4P

Rated insulation voltage: 800V Rated impulse withstand voltage: 8kV

Rated frequency: 50/60Hz I<sub>max</sub>(5/20μs): 100kA

Type Code:	YRAS80-DB40	DB80	DB125							
AC-22A/B: 500V~	16A	20A	25A	32A	40A	63A	80A	100A	125A	
AC-23A/B: 500V~	16A	20A	25A	25A	25A	63A	63A	80A	100A	
DC-21B: 400Vdc	16A	20A	25A	25A	25A	40A	40A	63A	63A	
AC-23A/B: 500V~	7.5kw	9kw	11kw	15kw	18.5kw	30kw	37kw	45kw	55kw	

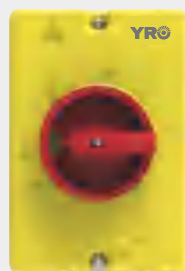
### YRAS69EL Waterproof AC Isolator Switch

Rated Thermal Current: 20/32/40/63A Pole: 2P/3P/4P

Rated insulation voltage: 690V Rated impulse withstand voltage: 8kV

Rated frequency: 50/60Hz Standard: IEC 60947-3

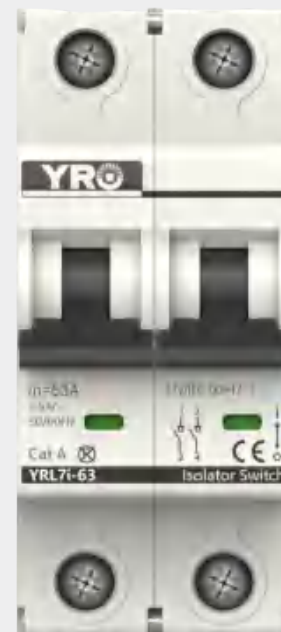
Rated Carry Current:	20A	32A	40A	63A	80A
AC-23A:	16A	25A	32A	45A	45A
AC-3:	12A	23A	30A	37A	37A
Power AC-23A 240V:	4kw	7.5kw	9kw	15kw	15kw
Power AC-23A 440V:	7.5kw	12.5kw	16kw	22kw	22kw



20-40A



63-80A



### YRL7i-63 AC Isolator Switch

Rated Current I <sub>e</sub> : 16/32/40/63A	Rated frequency: 50/60Hz
Rated insulation voltage: 690V	Insulation voltage U <sub>i</sub> : 500V
Rated frequency: 50/60Hz	Rated Impact voltage U <sub>imp</sub> : 4kV
Rated Current I <sub>e</sub> : 16/32/40/63A	Electrical life: 1500 times
Rated insulation voltage: 690V	Pole: 1P/2P/3P/4P
Rated On/Off Capability: 1.05U <sub>e</sub> , 3I <sub>e</sub> COSφ=0.65	
Rated Short Time Withstand Current(A): 20I <sub>e</sub> , t=1s	

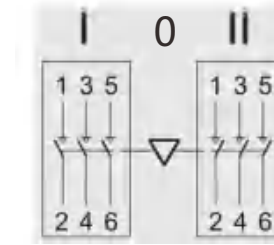
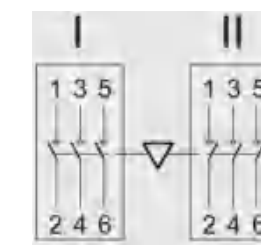
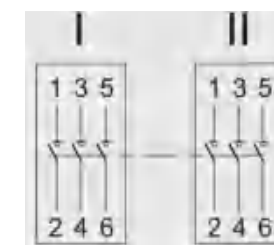
### YRAS80-IM AC Transfer Switch

Rated Thermal Current: 63/80A	Pole: 3P/4P/6P/8P		
Rated insulation voltage: 800V~	Standard: IEC 60947-3/60947-5		
Rated Voltage: 415V~690V	Rated frequency: 50/60Hz		
Type Code:	YRAS80-IM280	YRAS80-IM3180	YRAS80-IM3280
Description:	Manually turn ON/OFF	Inter-lock switch	Inter-lock switch

Combination  
6P/8P

For I-II

For I-0-II





## YRMTS-63 Inter-Lock Circuit Breaker



YRMTS-63



YRMTS-63N

### Technical Date

Usage: For dual power system, two power source input, one power source output.

Rated Current Ie: 32/40/63A	Rated frequency: 50/60Hz
Rated Voltage: 230/400V~	Trip type: Thermal trip, magnetic trip
Breaking Capacity: 6kA	Curve type: C
Mechanical: 20000 times	Electrical life: 10000 times
Pole: 1P+1P; 2P+2P; 3P+3P; 4P+4P.	
Ambient temperature: -20 ~ +70°C	Standard: IEC 60898-1
Recommend Wiring capacity: 32A→4mm <sup>2</sup> /40A→6mm <sup>2</sup> /50A→10mm <sup>2</sup> /63A→16mm <sup>2</sup>	



**YRO**  
Product video  
Scan code to view

### YMTS-125 Manual Changeover Switch

Usage: For dual power system, two power source input, one power source output

Rated Current Ie: 100/125A	Rated frequency: 50/60Hz
Rated Voltage: 230/400V~	Switch Status: I-0-II
Mechanical: 20000 times	Electrical life: 8000 times
Pole: 1P+1P; 2P+2P; 3P+3P; 4P+4P.	
Ambient temperature: -20 ~ +70°C	Standard: IEC 60947-3
Recommend Wiring capacity: 100A→25mm <sup>2</sup> /125A→35mm <sup>2</sup>	



### YRQ2CB Dual Power Transfer Switch

Usage: For dual power system, two power source input, one power source output.

Rated Current Ie: 32/40/63/100/125A	Rated frequency: 50/60Hz
Rated Voltage: 120/230/400V~	Switch Status: I-0-II
ATS level: CB Class/MCB	Model: Manual&Automatic together
Pole: 2P; 4P.	Optional Funtion: Generator restart
Ambient temperature: -20 ~ +70°C	Standard: IEC 60947-6-1
Transfer time: 2 seconds	Standard: IEC 61643-11



### YRQ4CB Dual Power Transfer Switch

Usage: For dual power system, two power source input, one power source outp

Rated CRated Current: 125/250/400/630/800/1250A	Rated frequency: 50/60Hz
Rated Voltage: 400V~	Switch Status: I-0-II
ATS level: CB Class/MCCB	Model: Manual&Automatic together
Pole: 3P; 4P for triple phase	Optional Funtion: Generator restart
Ambient temperature: -20 ~ +70°C	Standard: IEC 60947-6-1
Transfer time: 2 seconds	



### YRQ4PC-63 Dual Power Transfer Switch

Usage: For dual power system, two power source input, one power source output. Uninterruptible power supply transfer switch.

Rated Current: 32/40/50/63A	Rated frequency: 50/60Hz
Rated Voltage: 230/400V~	Operation Voltage: 180~270V
ATS level: PC Class	Model: Manual&Automatic together
Pole: 2P; 4P	Optional Funtion: Indicator Aux
Ambient temperature: -20 ~ +7 0°C	Standard: IEC 60947-4-1
Transfer time: < 30ms	Switch Status: I-0-II



### YRQ4PC-125 Dual Power Transfer Switch

Usage: For dual power system, two power source input, one power source output. Uninterruptible power supply transfer switch.

Rated Current: 63/100/125A	Rated frequency: 50/60Hz
Rated Voltage: 230/400V~	Operation Voltage: 180~270V
ATS level: PC Class	Model: Manual&Automatic together
Pole: 2P; 4P	Optional Funtion: Indicator Aux
Ambient temperature: -20 ~ +7 0°C	Standard: IEC 60947-4-1



### YRMTS-125 Inter-Lock Circuit Breaker

Usage: For dual power system, two power source input, one power source output.

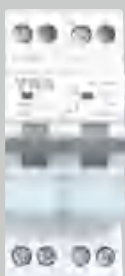
Rated Current Ie: 80/100/125A	Rated frequency: 50/60Hz
Rated Voltage: 230/400V~	Trip type: Thermal trip, magnetic trip
Breaking Capacity: 6kA	Curve type: D
Mechanical: 20000 times	Electrical life: 8000 times
Pole: 1P+1P; 2P+2P; 3P+3P; 4P+4P.	
Ambient temperature: -20 ~ +70°C	Standard: IEC 60947-2
Recommend Wiring capacity: 80A→16mm <sup>2</sup> /100A→25mm <sup>2</sup> /125A→35mm <sup>2</sup>	



### YMTS-63 Manual Changeover Switch

Usage: For dual power system, two power source input, one power source output.

Rated Current Ie: 40/63A	Rated frequency: 50/60Hz
Rated Voltage: 230/400V~	Switch Status: I-0-II
Mechanical: 20000 times	Electrical life: 8000 times
Pole: 1P+1P; 2P+2P; 3P+3P; 4P+4P.	
Ambient temperature: -20 ~ +70°C	Standard: IEC 60947-3
Recommend Wiring capacity: 40A→6mm <sup>2</sup> /63A→10mm <sup>2</sup>	
Classified: 5/20μs+10/350μs Type I+II	Insulation: PVC hot dip molding



### YRQ4PC-125PV Dual Power Transfer Switch

Usage: For dual power system, two power source input, one power source output. The backup power source B must connect to on-grid power. Main Power source A connect to solar inverter. This ATS only can work when the backup power is powered on. Transfer time from power A to power B is within 30ms; transfer time from power B to power A will delay to 2 seconds to check the inverter voltage.

Rated Current: 63/100/125A	Rated frequency: 50/60Hz
Rated Voltage: 230/400V~	Operation Voltage: 180~270V
ATS level: PC Class	Model: Manual&Automatic together
Pole: 2P;3P; 4P	Switch Status: I-0-II

### YRQ4PC Dual Power Transfer Switch

Usage: For dual power system, two power source input, one power source output. Uninterruptible power supply transfer switch.

Rated Current: 125/250/400/630/800/1250A	Switch Status: I-0-II
Rated Voltage: 400V~	Model: Manual&Automatic together
MTS level: PC Class	Optional Function: Generator restart
Pole: 3P; 4P for triple phase	Standard: IEC 60947-3
Ambient temperature: -20 ~ +70°C	Standard: IEC 60947-3
Rated frequency: 50/60Hz	

### YRGL1 Manual Changeover Switch

Usage: For dual power system, two power source input, one power source output.

Rated Current: 125/250/400/630/800/1250A	Rated frequency: 50/60Hz
Rated Voltage: 400V~	Switch Status: I-0-II
MTS level: PC Class	Model: Manual&Automatic together
Pole: 3P; 4P for triple phase	Optional Function: Generator restart
Ambient temperature: -20 ~ +70°C	Standard: IEC 60947-6-1

Transfer time: < 1 seconds

### YRCB-63Wifi Circuit Breaker

Protocol: Wifi TUYA Control Type: Both Remote/Manual

Operation Voltage: 100-240V Rated Current: 10-63A

Function:	ON/OFF	Timing	Overload	Energy Meter	Voltage Protection
Type 1:		✓	✓	✗	✗
Type 2:		✓	✓	✓	✓

### YCH8 Modular Contactor

Rated Voltage Ue: 2P 230V;4P 400V Rated Current Ie: 25/32/40/63A

Operation Voltage: 100-240V Rated Insulation Voltage Ui: 500V

Protocol: Wifi TUYA Frequency: 50/60

Main Contact:  
1P 1NO;1NC/2P 1NO1NC;2NO;  
2NC/3P 3NO;3NC/  
4P 2NO2NC/3NO1NC/4NO

### YRVP Over&Under Voltage Protector

Rated Voltage: 230V~for single phase; 400V~for triple phase

Type:	YRVP-1	YRVP-2	YRVP-3	YRVP-4	YRVP-5	YRVP-6	YRVP-6wifi	YRVP-7	YRVP-1/3	YRVP-3/3
Max Current:	63A		40/63/80A			63A			63/100/125A	63/100A
Over Voltage:	270V					230~300V(Adjustable)			460±15V	230~300V/phase
Under Voltage:	170V					140~210V(Adjustable)			300±15V	140~210V/phase
Delay time:	0.4~1min					1S~500S (default: 30S) Adjustable			60s	
Action time:	1s					0.1S~30S (default: 0.5S) Adjustable				
Earth Leakage:	✗	✗	✗	✓	✓	✓	✓	✗	✗	✗
Over Current:	✗	✗	✓	✓	✓	✓	✓	✗	✗	✓
Surge Protect:	✗	✗	✗	✗	✓	✗	✗	✓	✗	✗
Kwh meter	✗	✗	✗	✗	✗	✓	✓	✗	✗	✗
App(wifi):	✗	✗	✗	✗	✗	✓	✓	✗	✗	✗
Image:										

### YEVC-3.5KB Portable EV Charger

Output Current: 16A Input Voltage: 240V~  
 Charge gun cable: 5m(default); 3m and 10m optional Power: 3.5kw  
 Charge type: Direct charge/plug and play Plug: 16A  
 Charge Port: Charge Socket:



### YEVC-7KB Portable EV Charger

Output Current: 32A Input Voltage: 240V~  
 Charge gun cable: 5m(default); 3m and 10m optional Power: 7kw  
 Charge type: Direct charge/plug and play Plug: 32A  
 Charge Port: Charge Socket:



### YEVC-7KWM Wall-mounted EV Charger

Output Current: 32A Input Voltage: 240V~  
 Charge gun cable: 5m(default); 3m and 10m optional Power: 7kw  
 Charge type: Direct charge/plug and play  
 Charge Port: Charge Socket:

