

POWER+

T.E.M.
Tabbara Electro Mechanic S.A.L

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Fuse and Fuse Holder

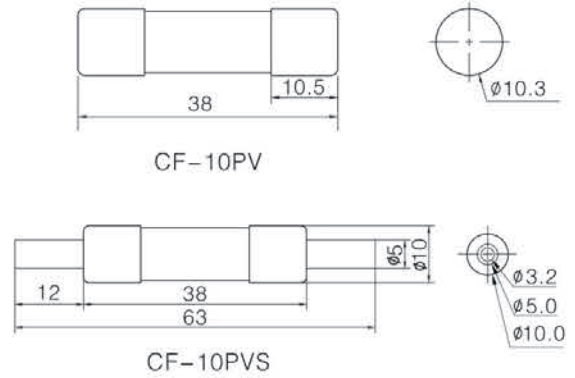
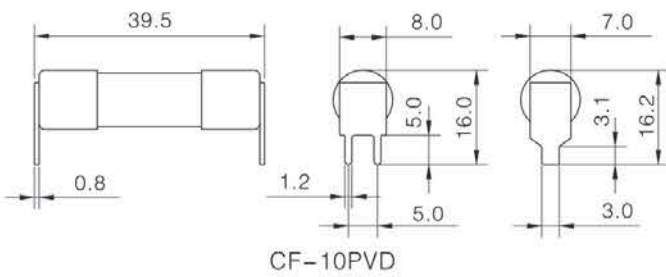
CF-10PV	CFPV1038	1A-32A	1000V DC
CF-10PVD	CFPV1038D	1A-32A	1000V DC
CF-10PVS	CFPV1038S	1A-32A	1000V DC



Photovoltaic Fuse

- ☛ Fuse Size: 10 X 38mm;
- ☛ Class of Operation: gPV
- ☛ Standard: IEC 60269-6 UL248-19
- ☛ Breaking Capacity: 20kA
- ☛ Time Constant: 1-3ms

Dimensions-mm



Specifications

Model	(A) Rated current	I ² T (A ² S)	
		Pre-arcng	Total
CF-10PV/CFPV1038	1	0.15	0.4
CF-10PV/CFPV1038	2	1.2	3.3
CF-10PV/CFPV1038	3	3.9	11
CF-10PV/CFPV1038	4	10	27
CF-10PV/CFPV1038	5	18	48
CF-10PV/CFPV1038	6	31	89
CF-10PV/CFPV1038	8	3.1	31
CF-10PV/CFPV1038	10	7.2	68
CF-10PV/CFPV1038	12	16	136
CF-10PV/CFPV1038	15	24	215
CF-10PV/CFPV1038	16	28	255
CF-10PV/CFPV1038	20	38	392
CF-10PV/CFPV1038	25	71	508
CF-10PV/CFPV1038	30	102	821
CF-10PV/CFPV1038	32	176	976

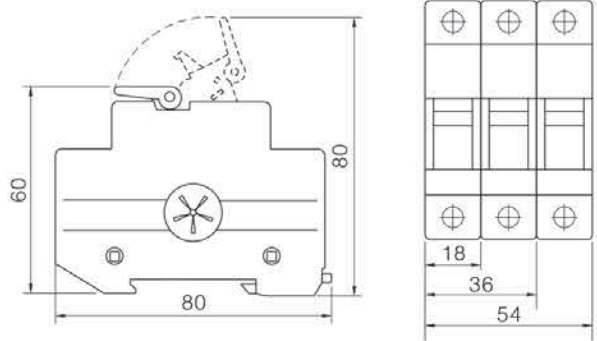
CFPV-32 32A 1000V DC (10X38)

Photovoltaic Fuse

- ✦ Rated Voltage : 1000VDC
- ✦ Class of Operation: gPV
- ✦ Standard: UL4248-19 IEC 60269-6



Dimensions—mm



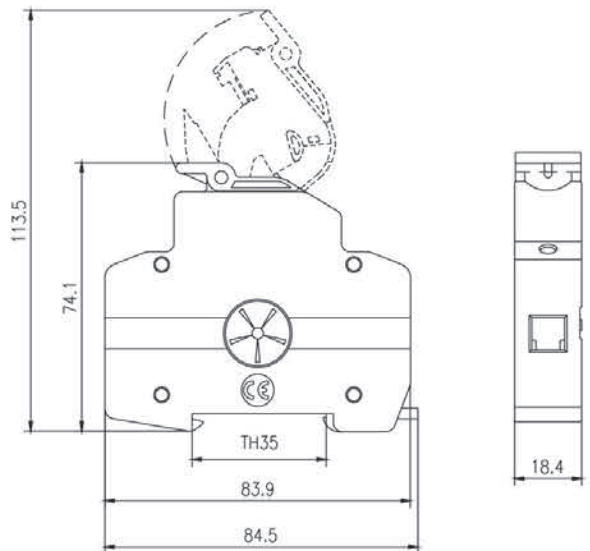
CFPV-32H 32A 1000V DC (10X38)

Photovoltaic Fuse

- ✦ Rated Voltage : 1000VDC
- ✦ Class of Operation: gPV
- ✦ Standard: IEC 60269-6



Dimensions—mm



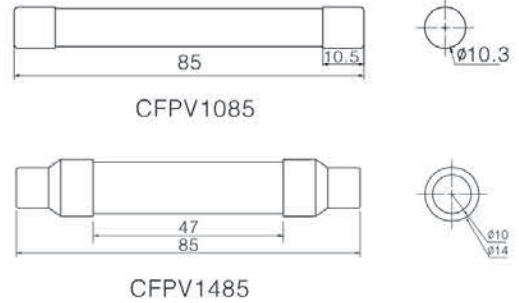
CFPV-32L	CFPV1085	2A-32A	1500V DC
CFPV-63L	CFPV1485	8A-50A	1500V DC



Photovoltaic Fuse

- ⊕ Fuse Size: 10 X 85mm 14 X 85mm
- ⊕ Class of Operation: gPV
- ⊕ Standard: IEC 60269-6 UL248-19
- ⊕ Breaking Capacity: 20kA
- ⊕ Time Constant: 1-3ms

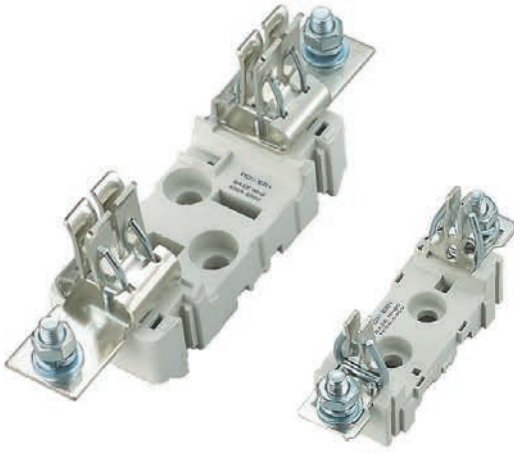
Dimensions-mm



Specifications

Model	(A) Rated current	I ² T (A ² S)	
		Pre-arcing	Total
CFPV-32L/ CFPV1085	2	4	8
CFPV-32L/ CFPV1085	3	6	11
CFPV-32L/ CFPV1085	4	8	14
CFPV-32L/ CFPV1085	5	11	22
CFPV-32L/ CFPV1085	6	15	30
CFPV-32L/ CFPV1085	8	9	35
CFPV-32L/ CFPV1085	10	10	98
CFPV-32L/ CFPV1085	12	12	120
CFPV-32L/ CFPV1085	15	14	170
CFPV-32L/ CFPV1085	20	34	400
CFPV-32L/ CFPV1085	25	65	550
CFPV-32L/ CFPV1085	30	85	680
CFPV-32L/ CFPV1085	32	90	720
CFPV-63L/ CFPV1485	40	125	800
CFPV-63L/ CFPV1485	50	155	920

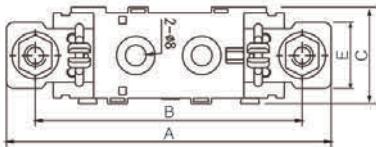
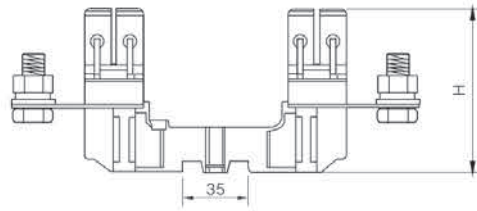
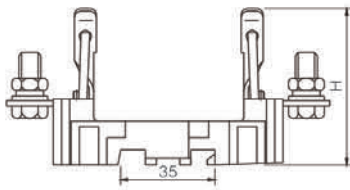
CFPV-H00B 1000V DC
 CFPV-H1B 1000V DC
 CFPV-H2B 1000V DC
 CFPV-H3B 1000V DC



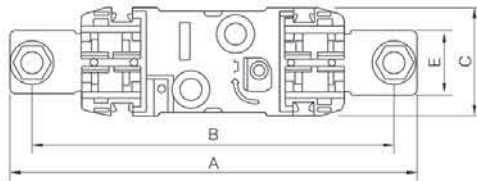
Photovoltaic Fuse

- ✦ Rated Voltage: 1000V dc;
- ✦ Class of Operation: gPV
- ✦ Standard: GB/T 13539.6 IEC 60269-6

Dimensions—mm



CFPV-H00B



Model	Applicable fuse link	Rated voltage (V)	Rated current (A)	(mm) Overall dimension/size				
				A	B	C	E	H
CFPV-H00B	CFPV-H00 NH00	1000V dc	160	119	102	34	23	57
CFPV-H1B	CFPV-H1 NH1	1000V dc	250	208	176	58	32	82
CFPV-H2B	CFPV-H2 NH2	1000V dc	400	224	198	58	35	89
CFPV-H3B	CFPV-H3 NH3	1000V dc	630	239	207	58	40	106

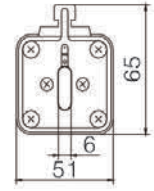
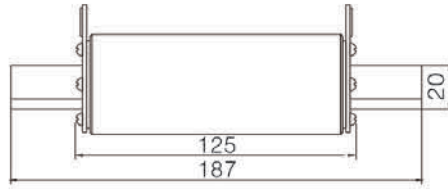
CFPV-H1XL	35A-200A	1500V DC
CFPV-H2XL	80A-400A	1500V DC
CFPV-H3L	125A-500A	1500V DC

Photovoltaic Fuse

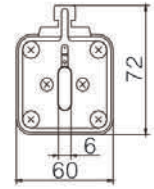
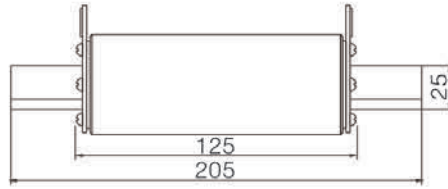
- ✦ Class of Operation: gPV
- ✦ Standard: GB/T 13539.6 IEC 60269-6
- ✦ Breaking Capacity: 30kA
- ✦ Time Constant: 1-3ms



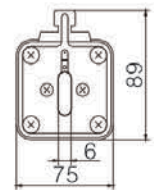
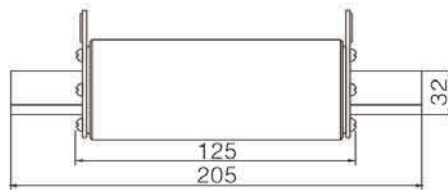
Dimensions-mm



CFPV-H1XL



CFPV-H2XL



CFPV-H3L



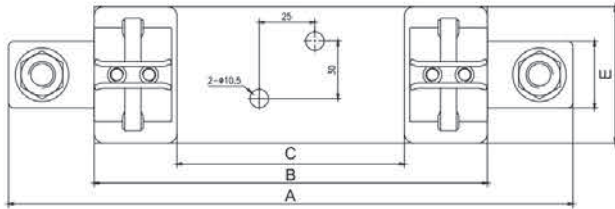
CFPV-H1XLB 1500V DC
 CFPV-H2XLB 1500V DC
 CFPV-H3LB 1500V DC

Photovoltaic Fuse

- ✦ Rated Voltage: 1500V .dc;
- ✦ Class of Operation: gPV
- ✦ Standard: GB/T 13539.6 IEC 60269-6



尺寸 Dimensions-mm

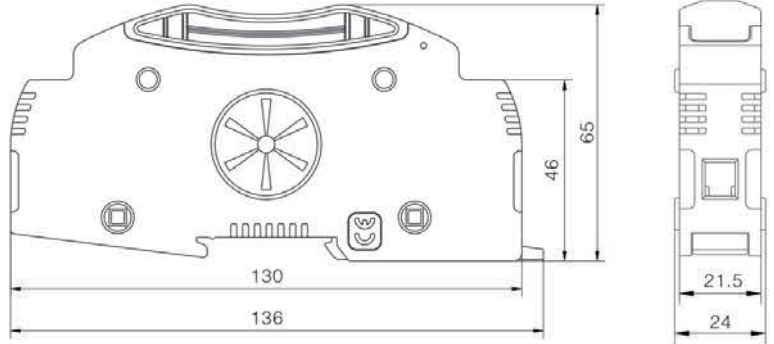


Model	Applicable fuse link	Rated voltage (V)	Rated current (A)	Overall dimension/size (mm)				
				A	B	C	E	H
CFPV-H1XLB	CFPV-H1XL	1500V dc	250	247	190	129	52	91
CFPV-H2XLB	CFPV-H2XL	1500V dc	400	278	210	135	63	104
CFPV-H3LB	CFPV-H3L	1500V dc	630	300	210	135	63	108

CFPV-63L 50A 1500V DC (10/14X85)

Photovoltaic Fuse

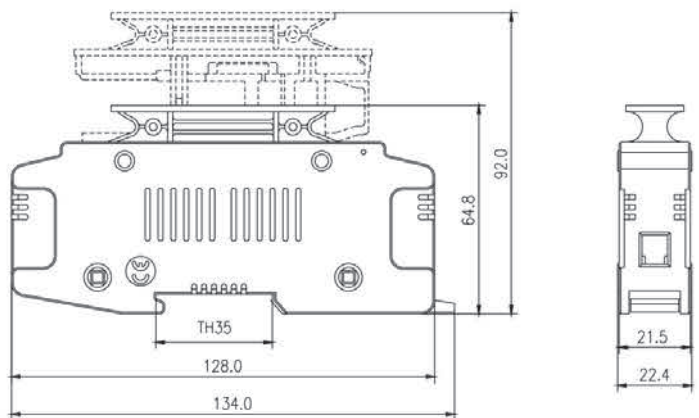
- ✦ Rated Voltage : 1500V DC
- ✦ Class of Operation: gPV
- ✦ Standard: UL248-19 IEC 60269-6



CFPV-63T 50A 1500V DC (10/14X85)

Photovoltaic Fuse

- ✦ Rated Voltage : 1500V DC
- ✦ Class of Operation: gPV
- ✦ Standard: UL248-19 IEC 60269-6



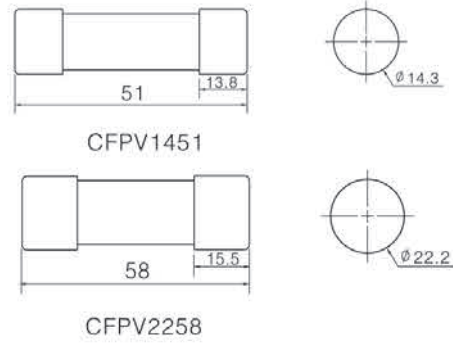


CFPV1451	15A–50A	1000V DC
CFPV1451	15A–32A	1500V DC
CFPV2258	30A–50A	1500V DC

Photovoltaic Fuse

- ⊕ Fuse Size: 14 X 51mm 22 X 58mm
- ⊕ Class of Operation: gPV
- ⊕ Standard: GB/T 13539.6 IEC 60269–6
- ⊕ Breaking Capacity: 20kA
- ⊕ Time Constant: 1–3ms

Dimensions—mm



Specifications

Model	(A) Rated current	$I^2 T (A^2 S)$	
		Pre-arcing	Total
CFPV1451	15	330	275
CFPV1451	20	220	578
CFPV1451	25	275	956
CFPV1451	30	380	1160
CFPV1451	32	405	1830
CFPV1451	40	600	2430
CFPV1451	50	850	3050
CFPV2258	40	750	3450
CFPV2258	50	1020	5050



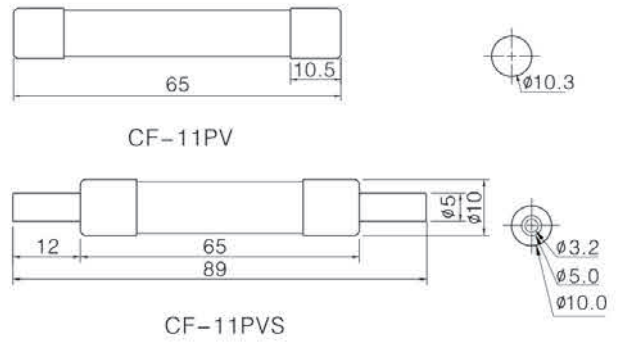
CFPV1065 1A-25A 1500V DC

CFPV1065S 1A-25A 1500V DC

Photovoltaic Fuse

- ⊗ Fuse Size: 10 X 65mm;
- ⊗ Class of Operation: gPV
- ⊗ Standard: GB/T 13539.6 IEC 60269-6
- ⊗ Breaking Capacity: 20kA
- ⊗ Time Constant: 1-3ms

Dimensions-mm



Specifications

Model	(A) Rated current	$I^2 T (A^2 S)$	
		Pre-arcing	Total
CFPV1065	1	0.15	0.4
CFPV1065	2	1.2	3.3
CFPV1065	3	3.9	11
CFPV1065	4	10	27
CFPV1065	5	18	48
CFPV1065	6	31	89
CFPV1065	8	3.1	31
CFPV1065	10	7.2	68
CFPV1065	12	16	136
CFPV1065	15	24	392
CFPV1065	20	38	215
CFPV1065	25	71	508

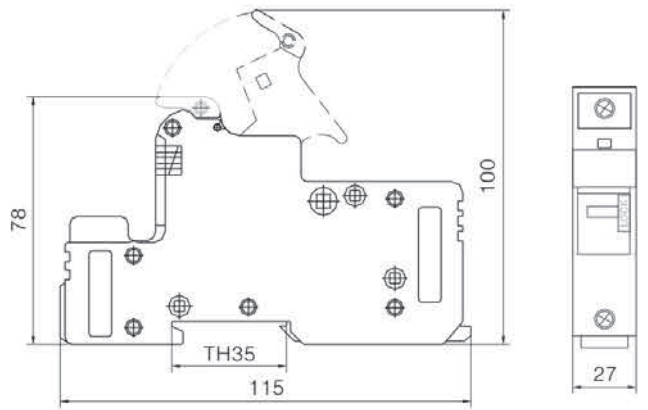
CFPV1451B 50A 1000V DC (14X51)
 CFPV2258B 50A 1500V DC (22X58)



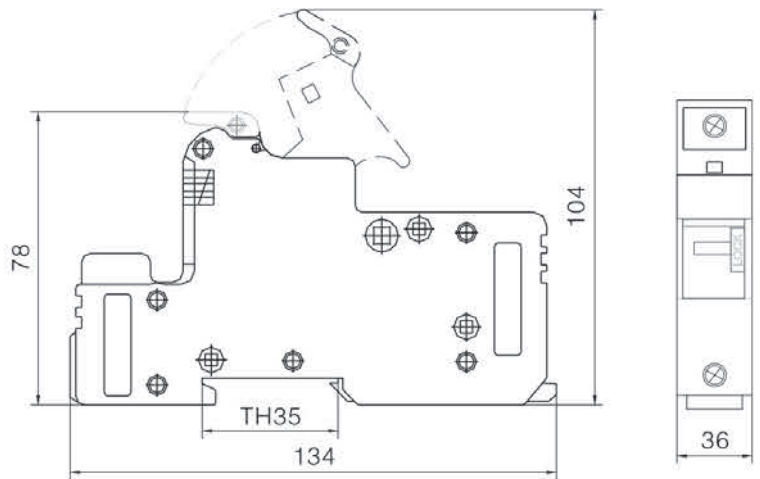
Photovoltaic Fuse

- ⊕ Rated Voltage : 1000V DC 1500V DC
- ⊕ Class of Operation: gPV
- ⊕ Standard: GB/T 13539.6 IEC 60269-6

Dimensions—mm

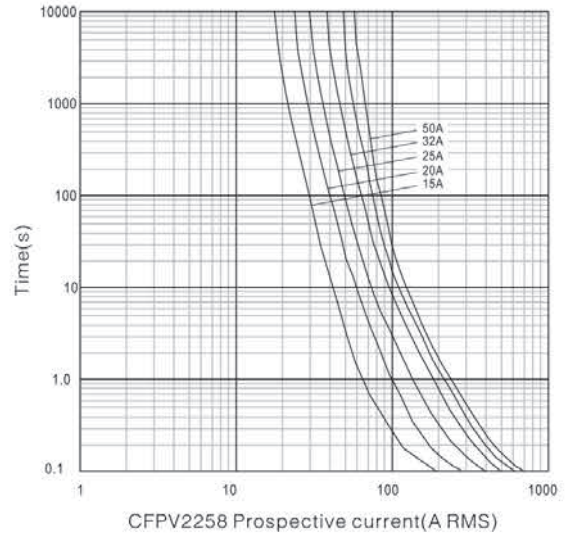
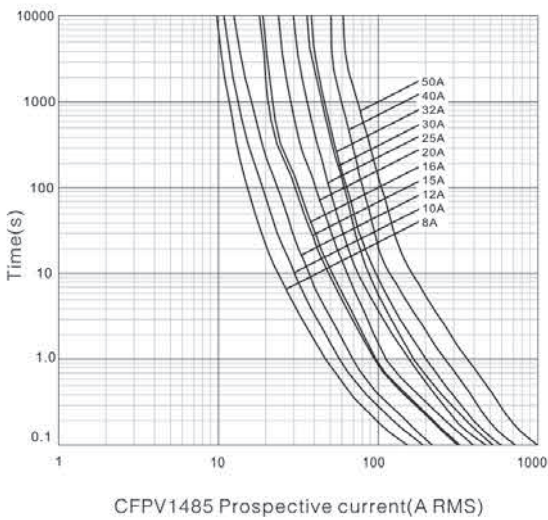
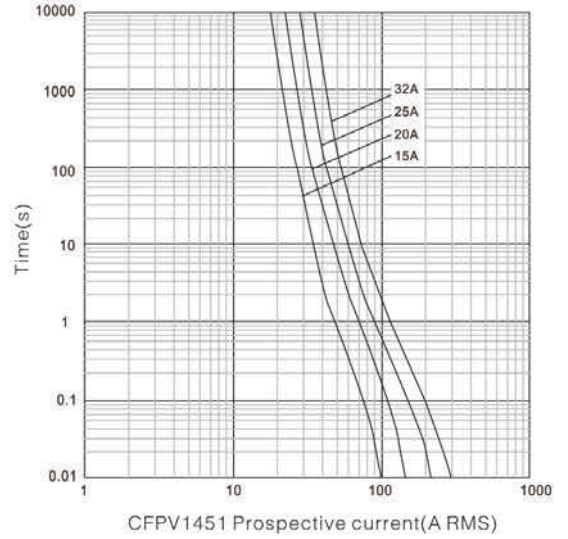
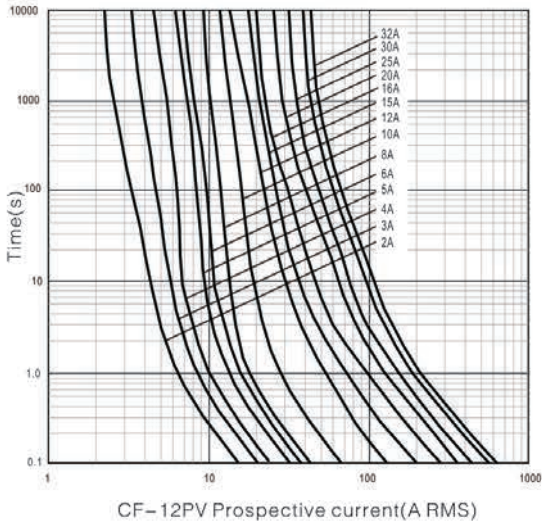
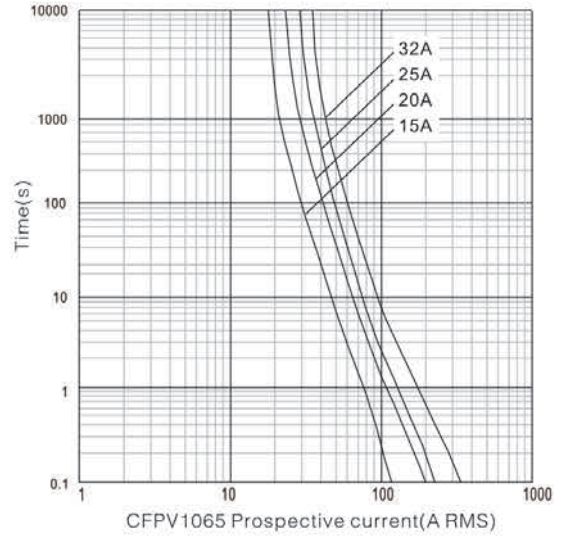
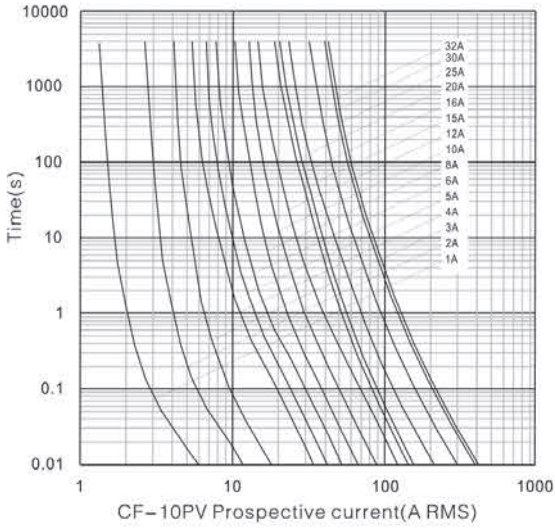


CFPV1451B



CFPV2258B

Time current Curve



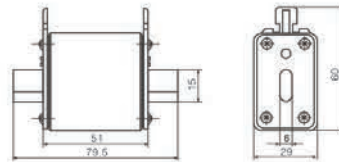
CFPV-H00	16-100A	1000V DC
CFPV-H1	32-160A	1000V DC
CFPV-H2	160-250A	1000V DC
CFPV-H3	250-400A	1000V DC



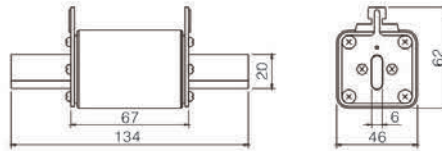
Photovoltaic Fuse

- ✦ Class of Operation: gPV
- ✦ Standard: GB/T 13539.6 IEC 60269-6
- ✦ Breaking Capacity: 50kA
- ✦ Time Constant: 1-3ms

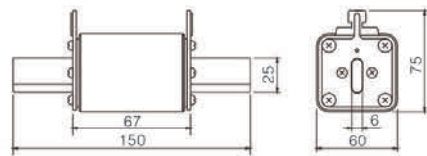
Dimensions-mm



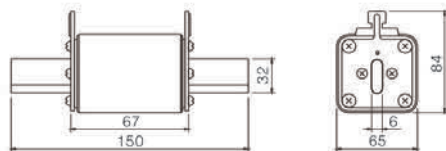
CFPV-H00



CFPV-H1



CFPV-H2



CFPV-H3

Matching Products of Connectors

Type	PV004
Rated Voltage	1000V DC
Rated Impulse Voltage	8000V
Rated Insulation Voltage	6000V
Rated Current	30A
Standard	IEC 62852
Protection Degree	IP67
Contact Resistance	$\leq 0.5\text{m}\Omega$
Pollution Degree	2
Ambient Temperature	-40°C ~ +85°C
Cable Cross Section Area	2.5mm ² , 4.0mm ² , 6.0mm ²
Insulation Material	PC EXL9330
Flame Class	UL94-V0

Matching products of connectors



PV SURGE PROTECTIVE DEVICE

YL5-C40-PV 2P

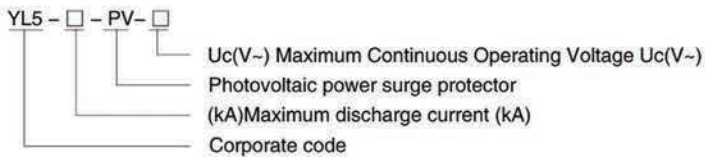
2POLE DC PV SURGE PROTECTIVE DEVICE



Purpose and scope

YL5-C40-PV 2P DC series surge protective device is suitable for the new energy solar energy power generation system, working voltage of 500V, 600V, 800V, 1000V. Installation position in the total power supply DC circuit systems, direct, indirect lightning current of lightning current or other transient overvoltage protection.

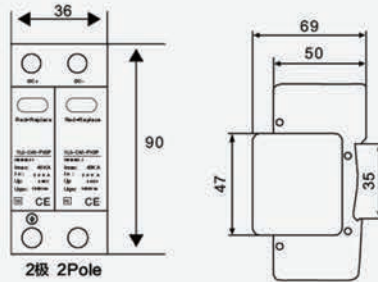
Model and meaning



Product Features

- 1、Surge protective device, plug.
- 2、the visual window color said protector working state; green (normal), red (fault).
- 3、hot melt flow double protection.
- 4、the configuration remote communication interface, can realize remote control.

And installation dimensions protector shape



Technical parameters

Name	500V DC power supply lightning protection module	800V DC power supply lightning protection module	1000V DC power supply lightning protection module
Product model	YL5-C40-PV-500	YL5-C40 - PV-800	YL5-C40 - PV-1000
Normal flow capacity(kA8/20us)	20	20	20
Maximum flow capacity I _{anx} (kA8/20 μ s)	40	40	40
Protection level (kV)	2.5	3	3.6
Response time(ns)	25	25	25
Rated voltage (VDC)	500	800	1000
Continue to work voltage (VDC)	550	880	1100
Leakage current 0.75U 1mA(μ A)	≤ 20	≤ 20	≤ 20
Working temperature(℃)	-40~+85	-40~+85	-40~+85

Installation instructions

- 1、 The power must be cut off before installation, strictly charged operation。
- 2、 series fuse or breaker in front of lightning protection module。
- 3、 please install according to the installation diagram shown in connection, where in + positive line, as the negative wire, PE wire, not the wrong connection. After the installation is complete, close the circuit breaker (fuse) switch, check whether the normal work state。
- 4、 after the installation of the module is inserted in place, check the anti co module is working。
- 5、 lightning protection module during use, should be regularly tested and view the fault display window state,when a fault display window is terminal output red or remote alarm signal, said lightning protection module failure, should be timely repair or replacement。
- 6、 parallel type power supply lightning protection module should be installed in parallel connection line, firm and reliable, and the requirement of short, coarse, straight。

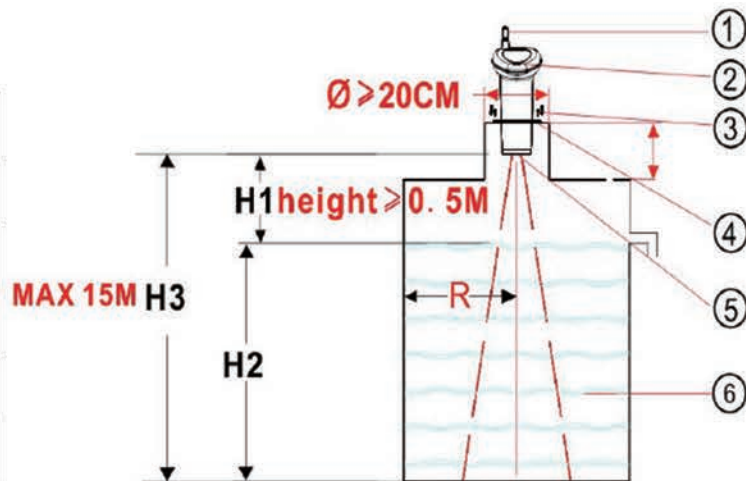
WIRELESS ULTRASONIC TANK LIQUID LEVEL METER WITH TEMPERATURE SENSOR



1. Antenna
2. Parallel Blister
3. Screw

4. Bracket
5. Sensor
6. Water Tank

NO	R(m)	H3(m)
1	0.1	≤1
2	0.2	≤3
3	0.3	≤5
4	0.5	≤10
5	0.8	≤15

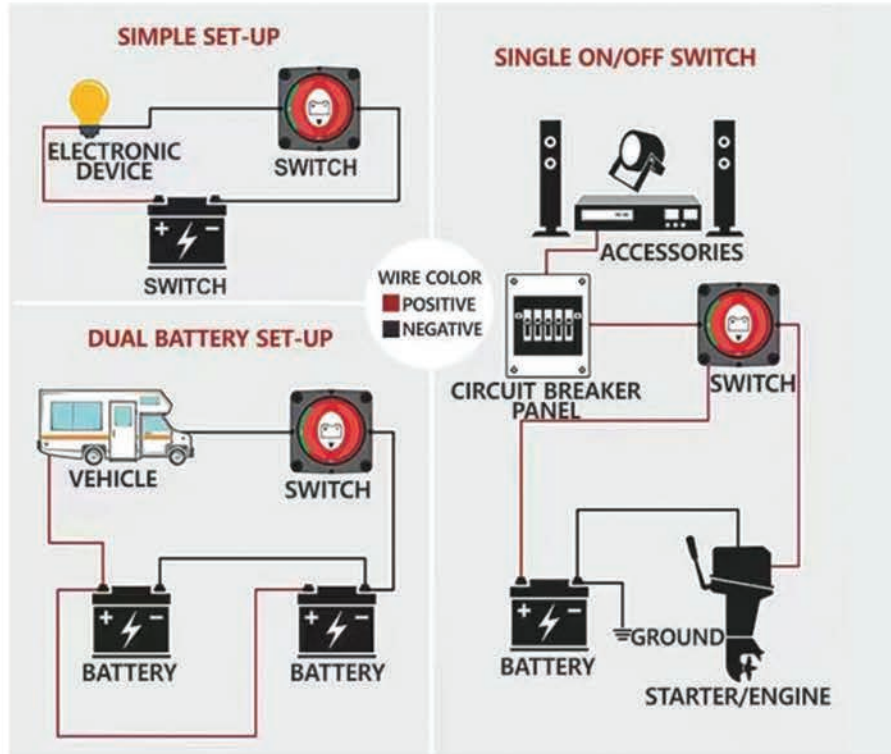


TS-FT002 Ultrasonic level gauge

- Time display/indoor temperature/water tank temperature/°C/°F
- Wireless transmission/water level display/over water level alarm
- View the maximum/minimum temperature
- Receiver size: 10.5*9.3*2.5cm
- Transmitter size: 15.5*6.5*9.5cm
- Power supply mode: the host uses 2*AA batteries, and the transmitter uses 6*AA batteries
- Temperature range: indoor 0°C~50°C, water tank -40°C~60°C
- Wireless transmission distance: within 100 meters of an open area
- Water tank height range: 0~15 meters
- Keep a distance of at least 0.5 meters from the water surface when the sensor is installed

BATTERY ISOLATOR DISCONNECT

Master Power Cut-Off Switch Kit Battery Isolator Disconnect



Specifications

Continoues Rating: 275 Amps DC
Intermittent Rating: 455 Amps DC
Cranking Rating: 1250 Amps DC
Voltage Rating: 12-48 Volts DC
Operation: on\off
Mounting: Recessed or Surface
Ignition Protected
Termination Stud Size:
2x10mm (3\8inch)
Dimensions: 69 x 69 x 75H mm
(2.75 x 2.75 x 3h inches)
Tin Plated Copper Studs and Nuts

POWER REGULATION

Specification

- Brand new
- Material: metal
- Size: as shown in picture
- Maximum power: 4000 W (resistive load connected)
- Voltage regulation: AC 0-220 V, starts from AC 10 V
- Protection: anti-peak, surge, RC absorption (EOC)
- Stable and durable.
- Used in electric furnace, water heater, lamps, small motor, electric iron etc.

How to Use:

- The input is connected with the AC 220V.
- Output wire is connected to the electric cooker or appliance motor.
- Turn the knob for speed, voltage, temperature control.

Package included:

- 1 x Voltage Regulator
- 1 x Power Regulator





A-2546B

Used for Solar Powered Pliers



Capacity	2.5-6mm ²
AWG	14-10AWG
Length/ Weight	270mm/0.9kg

LY-2546B

Used for Solar Powered Pliers



Capacity	2.5-6mm ²
AWG	14-10AWG
Length/ Weight	200mm/0.6kg



FSA-0626
0.6-2.6mm²



2546SP



Crimping Range: 2.5/4/6mm²



DC ISOLATOR Switch ELR1 Series

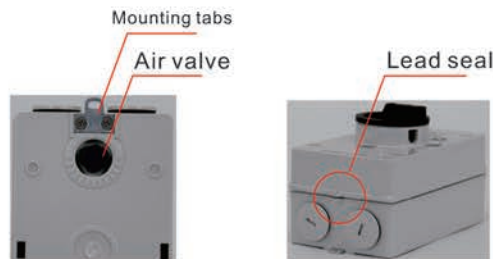


Application

ELR1 Series DC Isolator Switch in plastic enclosure is applied to 1~20 KW residential or commercial photovoltaic system, placed between photovoltage modules and inverters. Arcing time is less than 8ms, that keeps solar system more safe. To ensure its stability and long service life, our products are made by components with optimum quality. Max voltage is up to 1200V DC. It holds a safe lead among similar products.

Feature

- IP66 rated enclosure, UV Resistant
- 2 x mounting tabs, 4 x M25 threaded holes
- The handle can be padlocked in the "OFF" position
- MC4 plugs with adaptor or cable gland can be selected for convenient connection and space saving
- IP66 Air valve helps air flowing and reducing temperature
- 2 Pole, 4 Poles are viable (Single I Double String)
- Standard: IEC60947-3, AS60947.3
- DC-PV2, DC-PV1, DC-21B
- 16A, 25A, 32A, 1200V DC



Electrical Characteristics

Type	FMPV16-ELR1, FMPV25-ELR1, FMPV32-ELR1
Function	Isolator, Control
Standard	IEC60947-3, AS60947.3
Utilization category	DC-PV2/DC-PV1/DC-21B
Pole	4P
Rated frequency	DC
Rated operational voltage (U_e)	300V, 600V, 800V, 1000V, 1200V
Rated operational voltage (I_e)	See the next page
Rated insulation voltage (U_i)	1200V
Conventional free air thermal current (I_{th})	//
Conventional enclosed thermal current (I_{the})	Same as I_e
Rated short-time withstand current (I_{cw})	1kA, 1s
Rated impuled withstand voltage (U_{imp})	8.0kV
Overvoltage category	II
Suitability for isolation	Yes
Polarity	No polarity, "+" and "-" polarities could be interchanged.
Service life/cycle operation	
Mechanical	18000
Electrical	2000
Installation Environment	
ingress protection	Enclosure IP66
Storage temperature	-40°C~+85°C
Mounting Type	Vertically or horizontally
Pollution degree	3



Certificate No.:
SAA-190372-EA

DC ISOLATOR Switch ELR1 Series

FMPV16-ELR1 Series PV DC Isolator Switches

Wiring Diagram for Rated operational voltage $U_e(V)$ & Rated operational current $I_e(A)$

Contacts wiring diagram	300V	600V	800V	1000V	1200V	Poles in series	Number of strings	Type Number	Weight kg/PCS
	16A	16A	12A	8A	6A	2	1	2P	
	16A	16A	12A	8A	6A	2	2	4P	
	16A	16A	16A	16A	16A	2	1	4T	
	16A	16A	16A	16A	16A	2	1	4B	
	16A	16A	16A	16A	16A	4	1	4S	
	35A	35A	/	/	/	2	1	2H	

Switching Configurations

Type	2-pole	4-pole	2-pole 4 poles in series Input and Output bottom	2-pole 4 poles in series Input and Output on top	2-pole 4 poles in series Input on top Output bottom	2-pole 4 paralleled Poles
/	2P	4P	4T	4B	4S	2H
Contacts Wiring graph						
Switching example						

Bridging links installation

installed incorrectly



installed correctly



*Please note that all connections (including bridging link connections) should be tightened before energization.

DC ISOLATOR Switch ELR1 Series

FMPV25-ELR1 Series PV DC Isolator Switches

Wiring Diagram for Rated operational voltage $U_e(V)$ & Rated operational current $I_e(A)$

Contacts wiring diagram	300V	600V	800V	1000V	1200V	Poles in series	Number of strings	Type Number	Weight kg/PCS
	25A	25A	15A	9A	7A	2	1	2P	
	25A	25A	15A	9A	7A	2	2	4P	
	25A	25A	25A	25A	25A	2	1	4T	
	25A	25A	25A	25A	25A	2	1	4B	
	25A	25A	25A	25A	25A	4	1	4S	
	40A	40A	/	/	/	2	1	2H	

Switching Configurations

Type	2-pole	4-pole	2-pole 4 poles in series Input and Output bottom	2-pole 4 poles in series Input and Output on top	2-pole 4 poles in series Input on top Output bottom	2-pole 4 paralleled Poles
/	2P	4P	4T	4B	4S	2H
Contacts Wiring graph						
Switching example						

Bridging links installation

installed incorrectly



installed correctly



*Please note that all connections (including bridging link connections) should be tightened before energization.

DC ISOLATOR Switch ELR1 Series

FMPV32-ELR1 Series PV DC Isolator Switches

Wiring Diagram for Rated operational voltage $U_e(V)$ & Rated operational current $I_e(A)$

Contacts wiring diagram	300V	600V	800V	1000V	1200V	Poles in series	Number of strings	Type Number	Weight kg/PCS
	32A	27A	17A	10A	8A	2	1	2P	
	32A	27A	17A	10A	8A	2	2	4P	
	32A	32A	32A	32A	32A	2	1	4T	
	32A	32A	32A	32A	32A	2	1	4B	
	32A	32A	32A	32A	32A	4	1	4S	
	45A	40A	/	/	/	2	1	2H	

Switching Configurations

Type	2-pole	4-pole	2-pole 4 poles in series Input and Output bottom	2-pole 4 poles in series Input and Output on top	2-pole 4 poles in series Input on top Output bottom	2-pole 4 paralleled Poles
/	2P	4P	4T	4B	4S	2H
Contacts Wiring graph						
Switching example						

Bridging links installation

installed incorrectly



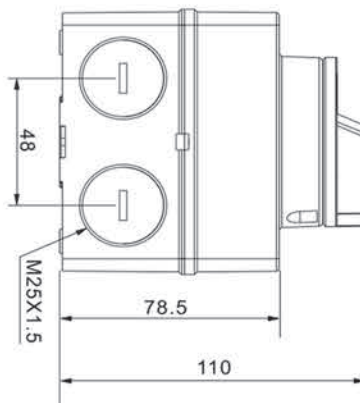
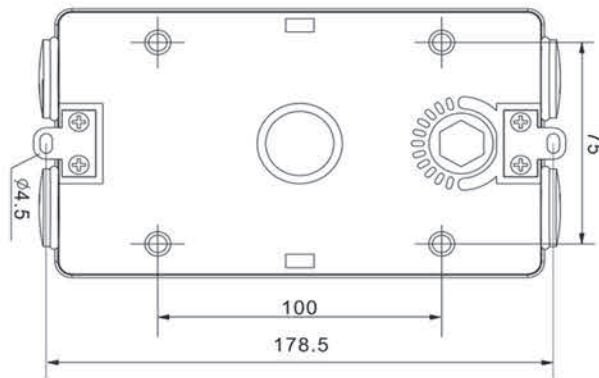
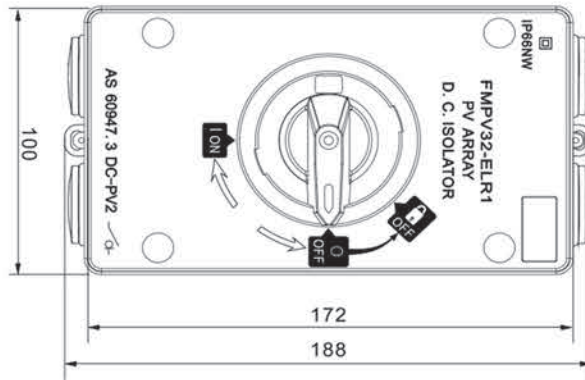
installed correctly



*Please note that all connections (including bridging link connections) should be tightened before energization.

DC ISOLATOR Switch ELR1 Series

Dimensions(mm)



VOLTAGE CURRENT PROTECTOR

FUNCTION SETTING

VP1 Protector

220 Normal Display

Click [M] To Set

Uo Overvoltage Setting

Click [M] To Set

UL Undervoltage Setting

Click [M] To Set

ULt Voltage Delay Time

Click [M] To Set

Iot Overcurrent Setting

Click [M] To Set

Iotd Overcurrent Delay Time

Click [M] To Set

Irt Recover Time(Starting Delay Time)

Setting Completed

Pass [O] To Exit

Auto Reconnect
Adjustable
Voltage Current
Protector

PRODUCT MANUAL

Technical parameters

	VP1	VAP1
Function	Over and under voltage	Over voltage, under voltage and over current
Rated supply voltage	AC220V(L-N)	
Rated supply frequency	50/60Hz	
Rated operational current	40A or 63A	
Burden	AC max.3VA	
Voltage display	✓	✓
Current display	×	✓
Over voltage operation value	230V~300V(factory default: 275V)	
Under voltage operation value	140V~210V(factor default:175V)	
Over/Under voltage action delay	1~400S	
Over current operation value	—	1A~63A(factory default: 63A)
Over current action delay	—	1~30S
Hysteresis	5%(U,I)	
Power-up delay / Reset time	1~400S	
Measurement error	≤1%	
Mounting/DIN rail	Din rail EN/IEC 60715	
Dimensions	82×36×68mm	
Weight	130g	135g

After-sales Service

2 years warranty service will be promised to all products purchased except the factors of human or force majeure. Please refer to the sticker on the side of the product for the start date of the warranty. Note: For any reason, tearing off the sticker will void the product warranty.

Thank you very much for choosing our products, our company wholeheartedly provides you with more excellent products

Disposal of Electrical Waste
All electrical waste should be disposed of in compliance with current WEEE regulations.

Caution
The products must be installed by qualified electricians. All end user electrical connections of the product shall comply with the appropriate safety standards.

Panel Diagram

Functions Diagram

Tr: Reset delay time(1~400s)
To: Over/Under voltage action delay(1~400s)
Io: Over current action delay(1~30s)

Wiring Diagram and Dimensions(mm)

FUNCTION SETTING

VAP1 Protector

220 Normal Display

Click [M] To Set

Uo Overvoltage Setting

Click [M] To Set

UL Undervoltage Setting

Click [M] To Set

ULt Voltage Delay Time

Click [M] To Set

Io Overcurrent Setting

Click [M] To Set

Iotd Overcurrent Delay Time

Click [M] To Set

Irt Recover Time(Starting Delay Time)

Setting Completed

Pass [O] To Exit

THREE PHASE DIN RAIL TYPE WIFI REMOTE CONTROL METER

DTS238-7 WIFI (D3711)

three phase din rail type WIFI remote control energy meter



D3711

The meter is used in three phase four wire power grid. The meter is designed to measure AC active energy and variable parameter. It has remote read communication port RS485 and WIFI (Smart life or Tuya smart APP) . It is a long life meter with the advantage of high stability, high over load capability, low power loss and small volume .

Basic Function

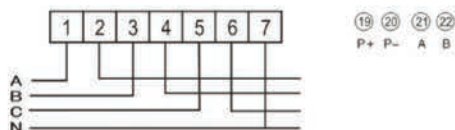
- LCD display with backlight , keypad for LCD display step by step
- Bi-directional total active energy measurement , reverse active/ energy measure in the total active/reactive energy
- The meter also display real voltage, current, active power, reactive power , power factor, frequency, import active energy, export active energy, reactive energy
- timing and delay control by APP
- Day/Month/Year history active energy consumption tracking by APP
- Check the A phase real current , A phase voltage ,conjunction phase active power by APP
- Remote control on/off by APP
- Manual Control by button under lose WIFI
- RS485 communication port , MODBUS-RTU protocol
- WIFI communication, can read and remote control by APP
- Pulse LED indicates working of meter. Pulse output with optical coupling isolation
- Loss phase LED indication, WIFI connection LED indication
- Energy data can store in memory chip more than 15 years after power off
- 35mm din rail installation , bottom type wire connection

Technical Data

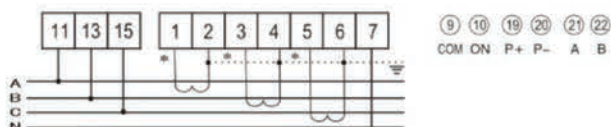
Rate voltage AC	3x120/208V , 3x230/400V, x240/415V (0.8 - 1.2Un)		
Rate Current / Frequency	5A/CT ,1.5(6)A , 5(60)A, 10(100)A / 50Hz or 60Hz ± 10%		
WIFI	802.11b/g/n		
Communication port	RS485 port, baud rate 1200 - 9600 bps, default is 9600bps, address 1 - 247, None parity, stop bits 1, data bits 8 .		
Connection mode	CT or Direct type	Accuracy class	1% or 0.5%
Power consumption	<1W/10VA each phase	Start current	0.004Ib
AC voltage withstand	4000V/25mA for60s	Over current withstand	30Imax for 0.01s
IP grade	IP20	Executive standard	IEC62053-21 IE62052-11
Work temperature	-25℃ - 70℃	Pulse output	Passive pulse, 80 ± 5 ms

Wire connection

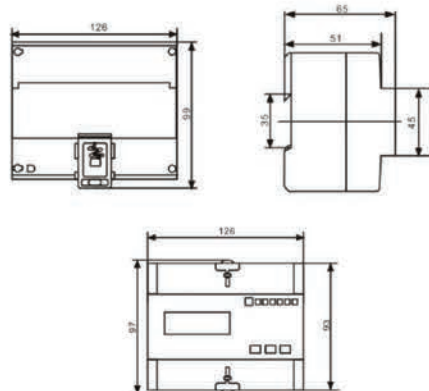
(1) Three phase four wire direct connection



(2) Three phase four wire through current transformer connection



Outline dimension



DDS238-2 WIFI (D1209)

single phase din rail type WIFI mp em



D1209

The meter is designed to measure single phase two wire AC active energy and variable parameter like residential, utility and industrial application. It can remote read from WIFI communication . It is a long life meter with the advantage of high stability, high over load capability, low power loss and small volume.

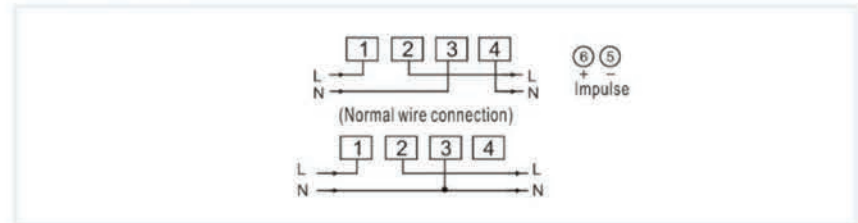
Basic Function

- LCD display, button for LCD display step by step
- Bi-directional total active energy, reverse active energy measure in the total active energy
- The meter also display real voltage, current, active power, reactive power , power factor, frequency
- Timing and delay control by APP
- History active energy consumption tracking by APP
- Check the real current ,voltage active power by APP
- Remote control on/off by APP
- WIFI communication, can read and remote control by mobile phone APP
- Pulse LED indicates working of meter, Pulse output with optical coupling isolation
- Energy data can store in memory chip more than 15 years after power off
- 35mm din rail installation

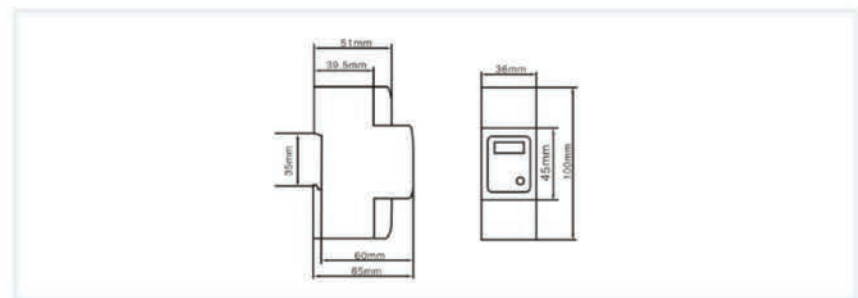
Technical Data

Rate voltage AC	90-300V (L-N)		
Rate Current / Frequency	5(65)A /50Hz or 60Hz ± 10%		
WIFI	802.11b/g/n		
Connection mode	Direct type	Accuracy class	1% or 0.5%
Power consumption	<1W/10VA	Start current	0.004Ib
AC voltage withstand	4000V/25mA for 60s	Over current withstand	30I _{max} for 0.01s
IP grade	IP20	Executive standard	IEC62053-21 DIN 43880
Work temperature	-25℃ ~ 70℃	Pulse output	Passive pulse, 80 ± 5 ms

Wire connection



Outline dimension



DDS238-1(D1101)

single phase din rail type energy meter



D1101-1



D1101-2

The meter is designed to measure single phase two wire AC active energy like residential, utility and industrial application. It is a long life meter with the advantage of high stability, high over load capability, low power loss and small volume.

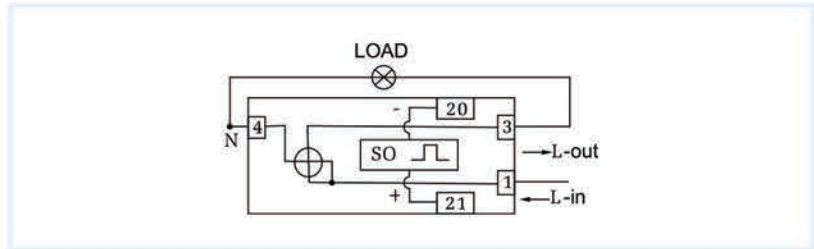
Basic Function

- Mechanical step register 5+1 or LCD display 6+1
- Bi-directional total active energy measurement, reverse active energy measure in the total active energy
- For LCD display type meter, Energy data can store in memory chip more than 15 years after power off
- Pulse LED indicates working of meter, Passive pulse output with optical coupling isolation
- 35mm din rail installation

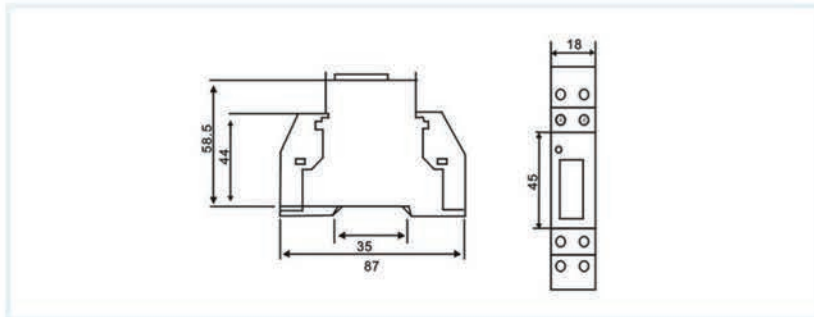
Technical Data

Rate voltage AC	110V,120V,220V,230,240V (0.8~1.2Un)		
Rate Current / Frequency	5(32)A/50Hz or 60Hz ± 10%		
Connection mode	Direct type	Accuracy class	1% or 0.5%
Power consumption	<1W/10VA	Start current	0.004Ib
AC voltage withstand	4000V/25mA for 60s	Over current withstand	30Imax for 0.01s
IP grade	IP20	Executive standard	IEC62053-21 DIN 43880
Work temperature	-25℃ ~70℃	Pulse output	Passive pulse, 80 ± 5 ms

Wire connection



Outline dimension





D1102-1



D1102-2



D1102-3



D1102-4

The meter is designed to measure single phase two wire AC active energy like residential, utility and industrial application. It is a long life meter with the advantage of high stability, high over load capability, low power loss and small volume.

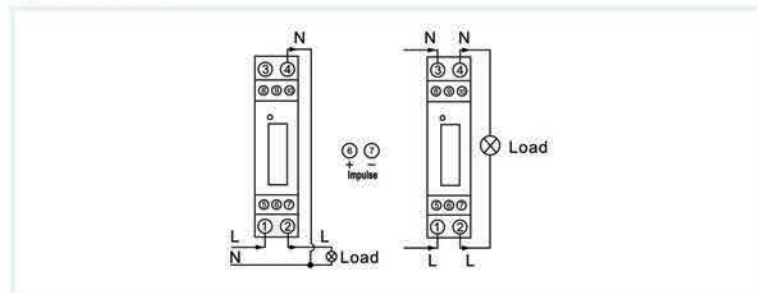
Basic Function

- Mechanical step register 5+1 or LCD display 5+2 or 6+1
- Bi-directional total active energy measurement, reverse active energy measure in the total active energy
- For LCD display type meter, Energy data can store in memory chip more than 15 years after power off
- Pulse LED indicates working of meter, Passive pulse output with optical coupling isolation
- 35mm din rail installation
- LCD display with backlight (optional function)

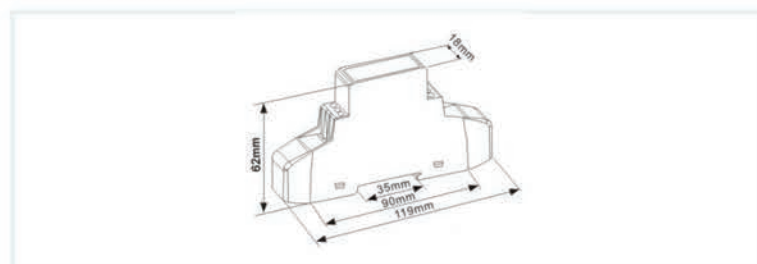
Technical Data

Rate voltage AC	110V,120V,220V,230,240V (0.8~1.2Un)		
Rate Current /	5(32)A, 5(40)A, 5(45)A/50Hz or 60Hz ± 10%		
Frequency			
Connection mode	Direct type	Accuracy class	1% or 0.5%
Power consumption	<1W/10VA	Start current	0.004Ib
AC voltage withstand	4000V/25mA for 60s	Over current withstand	30I _{max} for 0.01s
IP grade	IP20	Executive standard	IEC62053-21 DIN 43880
Work temperature	-25°C ~70°C	Pulse output	Passive pulse, 80 ± 5 ms

Wire connection



Outline dimension



BATTERY LCD DISPLAY



12, 24, 36, 48V LCD Lead Acid Battery LCD Display and Lithium Battery Capacity Tester Voltage Meter Tester Voltmeter Monitor Green Backlit

Product Description

Note: Only support 12 48V battery, such as 12V P01 lead acid battery, P04 lead acid battery, and please note this item DOES NOT support 6V lead acid battery.

Functions:

1. Manually switch battery percentage , voltage , power off
2. Automatic recycling display battery capacity , voltage per 2 seconds (Settable)
3. 10s delay auto off (Settable)
4. Double discharge curve selection (Settable)

Specifications:

Color: Black

Material: HTN, PCB

Weight: 18g

Size: Approx. 61.3 * 33.3 * 13.5 , 2.4 * 1.3 * 0.5in

Voltage: 6 70 (V)

Applicable scope: Battery or battery equipment

Storage temperature: 10 ~ 50

Setting Instruction:

1. Long press the Set key , power supply to the product , enter the setup interface
2. Press the Set key to select the battery specification (Lead acid battery(P), Lithium battery (L) , Fe battery(F))
3. Short press the Function key to select the number of battery strings (increasing for set button , decreasing for function button)
4. Long press the Function key to set s mode.

Package List:

1 x Battery Capacity Voltage Meter with Connecting Cable