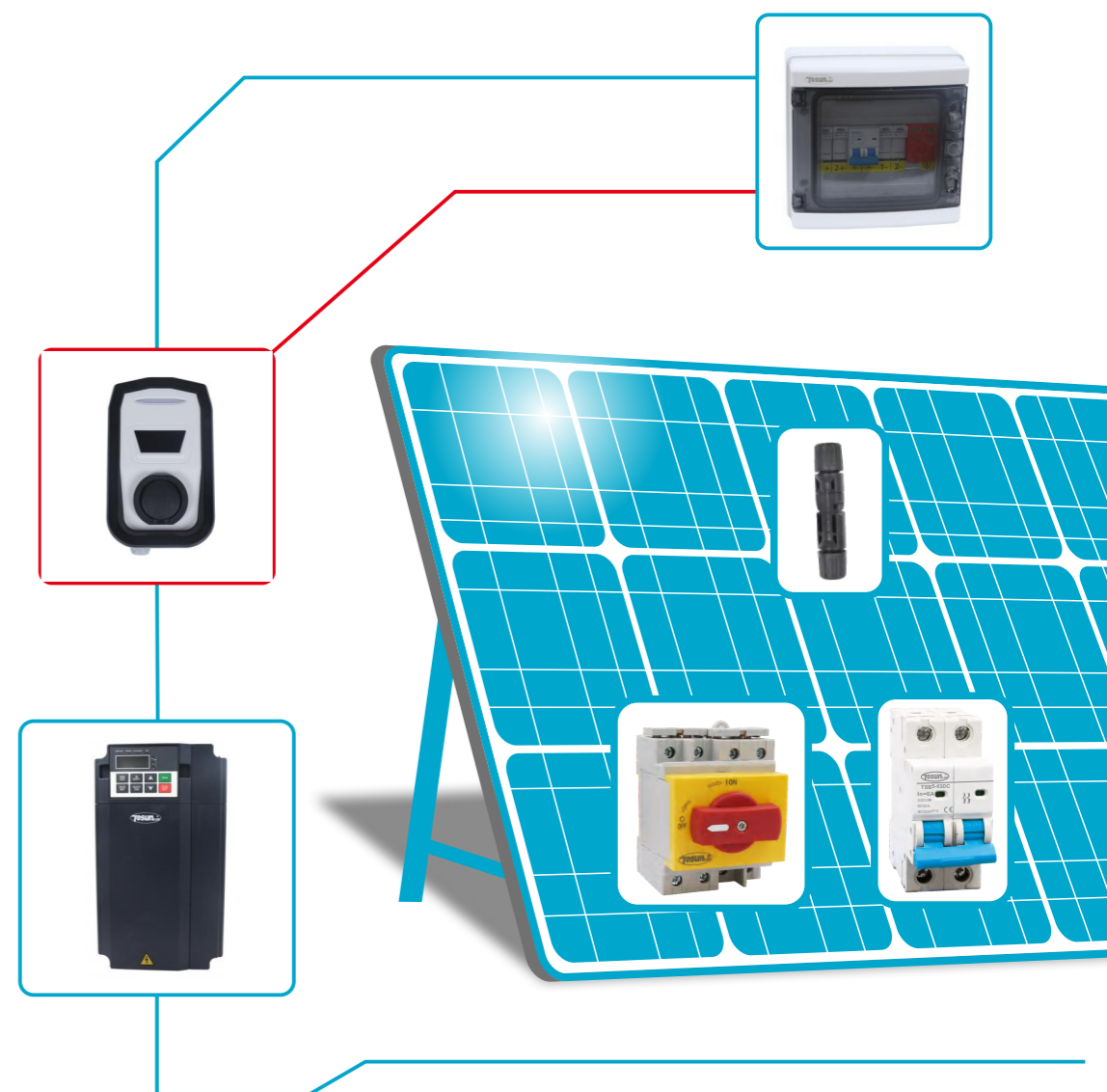


New Energy Devices



Tosun^{LUX} Trusted Brand in 91 Countries

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Distributor

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solution to electric*



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PV Combiner Box



- High reliability
With DC Fuse
With DC Surge Protection Device
With DC circuit breaker or DC load isolating switch.
- Strong adaptability
IP65 design, waterproof, anti dust and anti ultraviolet.
Strict test for high and low temperature, used widely.
The simple installation, the simplified system wiring, the convenient wiring .
The box body is made of cold rolled steel and other metal materials.
Flexible configuration
- Used for single crystal silicon solar modules, polycrystalline silicon solar modules, thin film solar modules. Current rating of the photovoltaic fuse, circuit breaker, load isolating switch is modified.

Model	TS-PV01	TS-PV02	TS-PV04	TS-PV06
Electric parameter				
System maximum DC voltage	550/1000V			
Maximum input current for each string	15A			
Maximum input strings	1	2	4	6
Maximum output switch current	16A/20A	20A/32A	50A/63A	100A
Lightning protection				
Category of test	II grade protection			
Nominal discharge current	20KA			
Maximum discharge current	40KA			
Voltage protection level	2.8KV/3.8KV			3.8KV
Maximum continuous operating voltage U _c	630KV/1050KV			1050KV
Poles	2P/3P			3P
Structure characteristic	Plug-push module			
System				
Protection grade	IP65			
Output device	DC circuit breaker(standard)/DC isolating swith(optional)			
Waterproof connectors	Standard			
PV DC fuse	Standard			
PV surge protector	Standard			
Box material	ABS+PC			
Installation method	Wall mounting type			
Operating temperature	-25°C~+55°C			
Elevation of temperature	2000M			
Permissible relative humidity	0-95%, no condensation			



Model	TS-PV08	TS-PV10	TS-PV12	TS-PV16
Electric parameter				
System maximum DC voltage	1000V			
Maximum input current for each string	15A			
Maximum input strings	8	10	12	16
Maximum output switch current	125A	160A	160A	200A
Lightning protection				
Category of test	II grade prptection			
Nominal discharge current	20KA			
Maximum discharge current	40KA			
Voltage protection level	3.8KV			
Maximum continuous operating voltage U _c	1050KV			
Poles	3P			
Structure characteristic	Plug-push module			
System				
Protection grade	IP65			
Output device	DC circuit breaker			
Waterproof connectors	Standard			
PV DC fuse	Standard			
PV surge protector	Standard			
Preventing diode	Optional			
Box material	Metal			
Installation method	Wall mounting type			
Operating temperature	-25°C~+55°C			
Elevation of temperature	2000M			
Permissible relative humidity	0-95%, no condensation			

Waterproof Distribution Board IP65

SGS

Waterproof and UV resistant



4ways



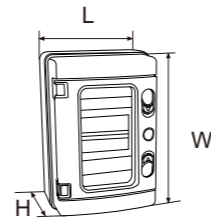
8ways



12ways



26ways



Model	Dimensions		
	L	W	H
HA-4ways	140	210	100
HA-8ways	215	210	100
HA-12ways	300	260	140
HA-18ways	410	285	140
HA-26ways	323	420	140
HA-36ways	300	595	150
HA-54ways	415	595	150



5ways



8ways



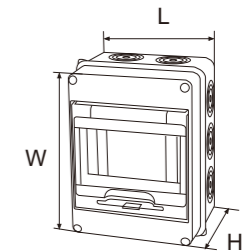
12ways



18ways



24ways



Model	Dimensions		
	L	W	H
HT-2ways	54	131	90
HT-5ways	120	160	92
HT-8ways	200	150	92
HT-12ways	255	200	108
HT-15ways	310	200	108
HT-18ways	370	198	108
HT-24ways	275	355	108

DC Miniature Circuit Breaker

Application

TSB5-63DC circuit breaker is designed to provide over current protection within appliances or electrical equipment, the branch circuit protection is already provided or not required. The device is designed for direct current (DC) control circuit applications.



TSB5-63DC 1P



TSB5-63DC 2P

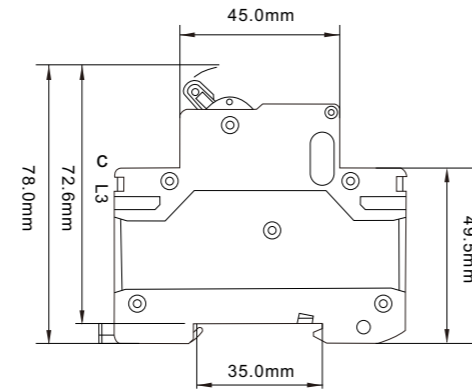
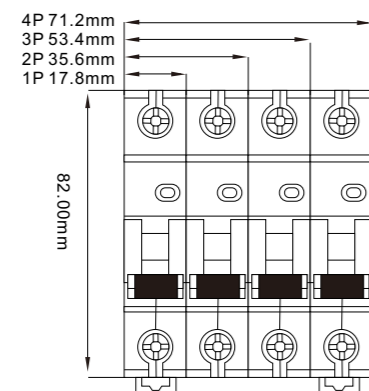


TSB5-63DC 3P

Specification

Number of poles	1P, 2P, 3P, 4P
Rated current (A)	6, 10, 16, 20, 25, 32, 40, 50, 63, 80
Breaking capacity	6000A
Rated operating voltage	1P/250V 2P/500V 3P/750V 4P/1000V
Rated insulation voltage	800V
Electric life	≥ 2500 operations
Mechanical life	≥ 20000 operations
Trip type	Thermal-magnetic
Ambient temperature	-20°C~+70°C
Installation	Din rail

Dimensions



DC Residual Current Circuit Breaker

Function

TSL3-63B is a kind of circuit breaker with complete update of residual current detection, based on current type A RCCB. It can not only effectively protect AC and pulsing DC (A type), the possible compound residual current (F type), but also smoothen DC and high frequency residual current (1KHz). In a circuit consisting of rectifier, inverter, frequency inverter, etc, the leakage current caused in DC loop circuit can be effectively detected and protected.

Application

Industry, medical, EV charger, elevator, etc

Conforms to standard: IEC/EN61008-1, IEC/EN62423

Detection residual current type: AC+A+ smoothing DC +F+ high frequency signal (1KHz)



TSL3-63B 1P+N

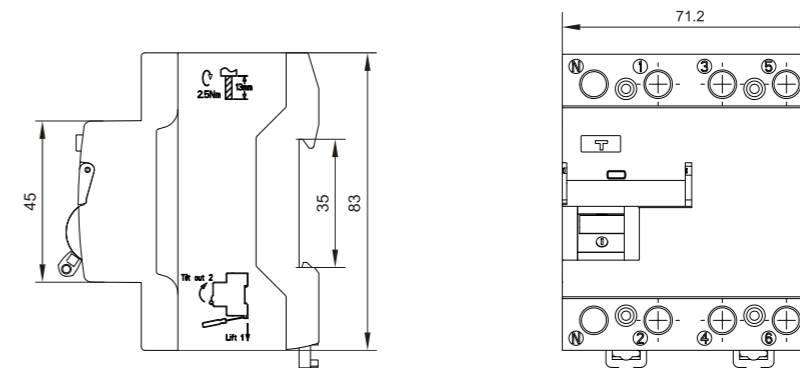
Specification

Rated voltage	240V ~1P+N, 415V ~3P+N
Rated current	16A, 25A, 32A, 40A, 63A
Rated residual operated current	0.03A, 0.1A, 0.3A
Poles	1P+N, 3P+N
Type of residual current	Type B (AC+A+ smoothing DC +F+ high frequency signal 1KHz)
Rated limited short circuit current	10000A
Rated making and breaking capacity	1000A
Rated residual making and breaking capacity	1000A
Rated insulation voltage	1P+N:250V 3P+N:500V
Rated impulse withstand voltage	4000V
Electrical life	2000 times
Mechanical life	10000 times
Operated ambient temperature	-25~+40°C
Stored ambient temperature	-25~+70°C
Tightening torque	3N.m
Connection capacity	16mm ²
Pollution level	2
Protection level	IP20



TSL3-63B 3P+N

Dimensions



Solar PV Fuse

Parameters and features

Standard: IEC60269-1 & IEC60269-6
 Rated voltage: DC1000V
 Rated current: 20A
 Breaking capacity: 33 KA
 Operating class: gPV
 Protection objects: It is used in the photovoltaic combiner box to provide safe and reliable protection for overload and short-circuit current faults of PV modules and PV arrays.
 Applicable environment: Temperature, -5°C~+40°C;
 Humidity, less than 90%.



TSPV-25

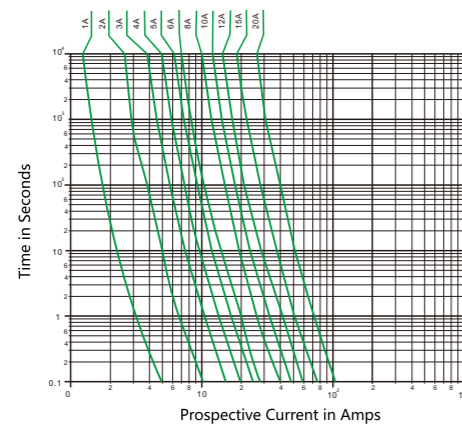
Specification

Model	Fuse link				Fuse base	
	Rated current (A)	I ² t(A ² s)		Power loss (W) 1.0 In	Model	Rated current (A)
		Melting	Clearing			
TSPV-25	1	5	16	0.9	TSPV-25B TSPV-25BX	20A
	2	8	32	1.0		
	3	10	48	1.3		
	4	13	65	1.5		
	5	22	86	1.6		
	6	32	100	1.8		
	8	42	135	2.1		
	10	50	152	2.3		
	12	57	188	2.7		
	15	60	230	3.0		
20	80	310	3.6			

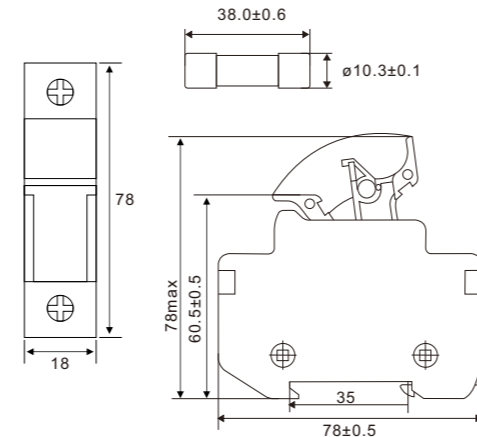


TSPV-25B

Average Characteristics Curve



Dimensions



Parameters and features

Standard: IEC60269-1 & IEC60269-6
 Rated voltage: DC1500V
 Rated current: 32A
 Breaking capacity: 25 KA
 Operating class: gPV
 Protection objects: It is used in the photovoltaic combiner box to provide safe and reliable protection for overload and short-circuit current faults of PV modules and PV arrays.
 Applicable environment: Temperature, - 5°C +40°C;



TSPV-32

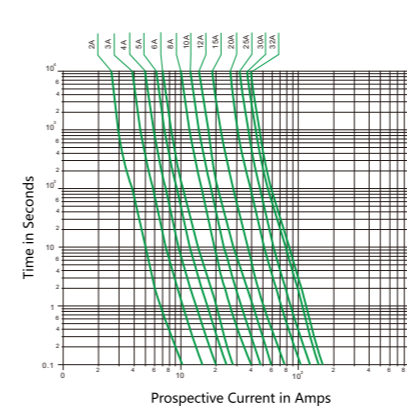
Specification

Model	Fuse link				Fuse base	
	Rated current (A)	I ² t(A ² s)		Power loss (W) 1.0 In	Model	Rated current (A)
		Melting	Clearing			
TSPV-32	2	3.5	12	2.2	TSPV-32B TSPV-32BX	32A
	3	8	18	2.5		
	4	16	35	2.8		
	5	30	66	3.0		
	6	46	130	3.3		
	8	55	200	3.8		
	10	70	270	4.5		
	12	95	360	5.0		
	15	130	400	5.7		
	20	220	750	6.8		
	25	350	1000	7.2		
	32	480	1600	8.2		

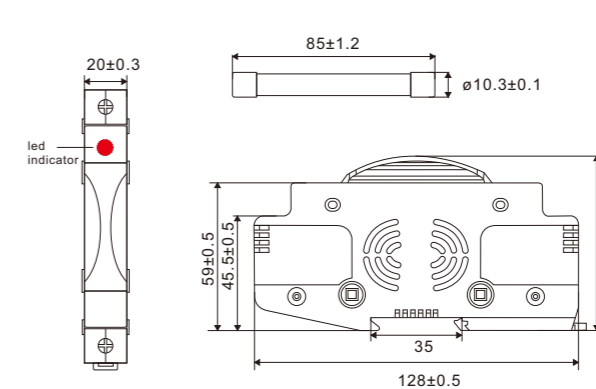


TSPV-32B

Average Characteristics Curve



Dimensions



Modular Changeover Switch



TSQ7-40-1P



TSQ7-40-2P



TSQ7-40-3P

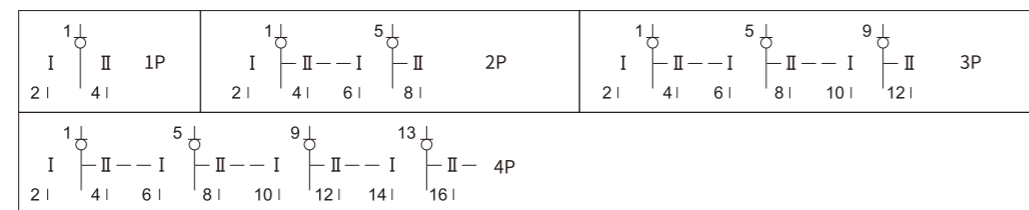
Application

The Changeover Switch can switch on, Load and break the circuit under normal conditions, using as Switch Disconnectors.

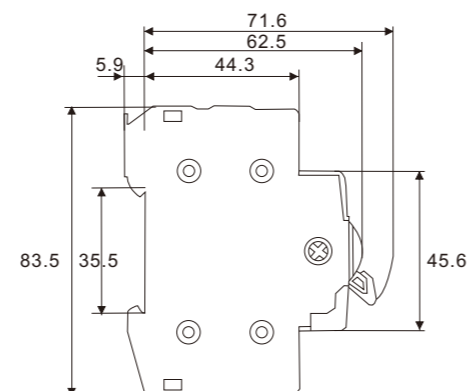
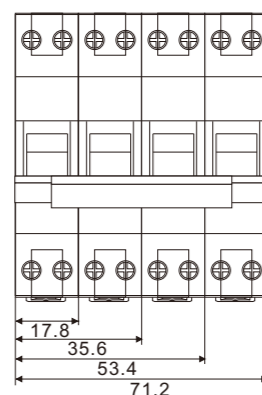
Specification

Model	TSQ7-40
Number of poles:	1P、2P、3P、4P
Rated working voltage Ue	240V/415V
Frequency	50/60Hz
Rated current (A)	16,25,32,40
Standard	IEC60947-3
Icw	1000A/1s
Icm	3000A
Protection level	IP20
Contact form	1-0-2
Ambient Temperature	-5°C...40°C
Mounting	On DIN rail EN60715(35mm) by means of fast clip device

Circuit Diagram



Dimensions



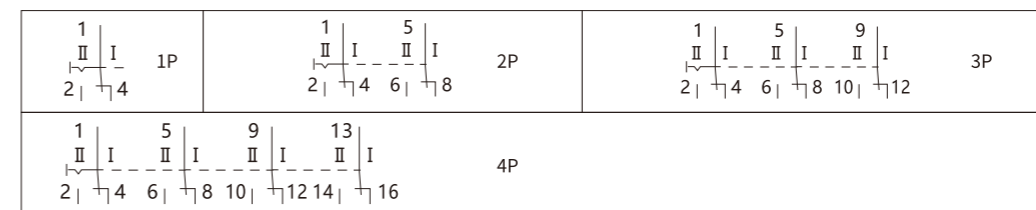
Application

The Changeover Switch can switch on, Load and break the circuit under normal conditions, using as Switch Disconnectors.

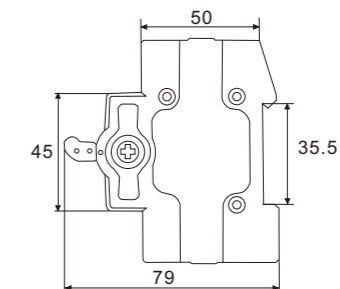
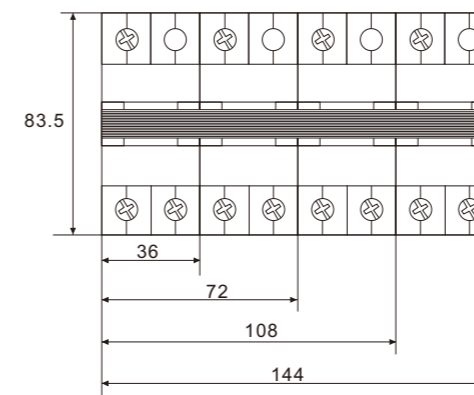
Specification

Model	TSQ7-125
Number of poles:	1P、2P、3P、4P
Rated working voltage Ue	240V/415V
Frequency	50/60Hz
Rated current (A)	63, 80, 100, 125
Standard	IEC60947-3
Icw	3000A/1s
Icm	5000A
Protection level	IP20
Contact form	1-0-2(S-0-M)
Ambient Temperature	-5°C...40°C
Mounting	On DIN rail EN60715(35mm) by means of fast clip device

Circuit Diagram



Dimensions



TSQ7-125-1P



TSQ7-125-2P



TSQ7-125-3P

Solar PV Surge Protector

- Innovative tripping and breaking technology
- Pluggable design, no need to interrupt the system when being plugged or unplugged.
- A single module can reach up to 40kA(8/20us)



TSP7 2P

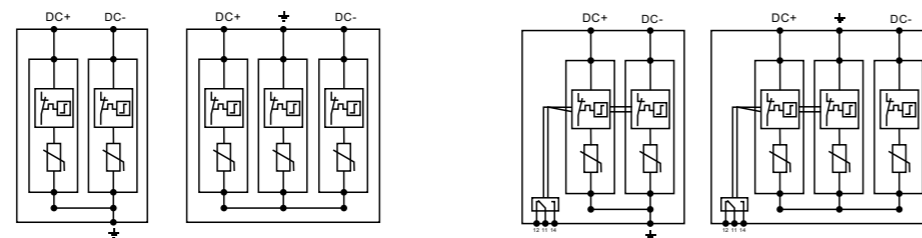


TSP7 3P

Specification

Number of pole	2,3				
Nominal PV voltage (d.c.) (Uostc)	500V	600V	800V	1000V	1200V
SPD according to EN61643-11/IEC 61643-11	Type2/Class II/T2				
Nominal discharge current (8/20 us) (In)	10KA/20KA				
Max. discharge current (8/20 us)(Imax)	20KA/40KA				
Voltage protection level (Up)	≤2.5KV	≤2.5KV	≤3.2KV	≤4.0KV	≤4.0KV
Response time (tA)	25ns				
Operating temperature range (Tu)	-40°C...+80°C				
Operating state fault indication	Green:normal / Red:invalid				
Number of output port	1 is available when needed				
Installation	DIn rail				
Place of installation	indoor installation				
Degree of protection	IP20				

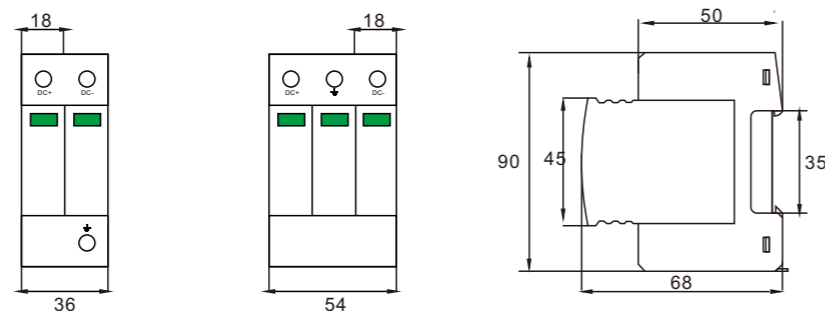
Circuit Diagram



Basic circuit diagram

With remote signal terminal

Dimensions



Vehicle DC Fuse

Application

The product provides safer and more reliable protection for overload and short-circuit current faults of electric vehicle lithium battery packs, super capacitor circuits, charging circuits, DC-DC inverters and other devices.

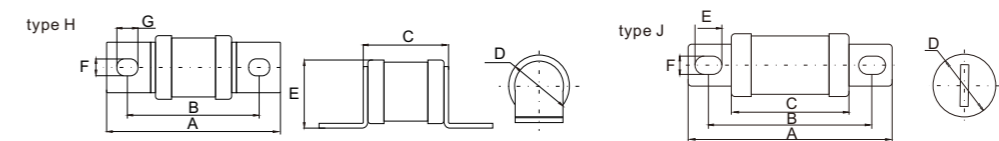
Applicable Environment: temperature -35°C~+85°C, humidity ≤90%

Specification

Model	Voltage	Current range	A	B	C	D	E	F	G
HEV8	DC150V	4A 6A 10A 15A 20A	45.5±1.0	37±1.0	28±1.0	8.5±0.2	9±0.5	4.2±0.2	6±0.2
HEV16S	DC150V	20A 25A 32A 40A 50A 63A 80A 100A 160A 180A	56.5±1.0	41.5±1.0	28±1.5	17.8±0.3	19±0.7	9.5±0.3	6.5±0.3
HEV35S	DC200V	200A 250A 300A 350A 400A	83.5±1.5	58.5±1.5	31.5±1.5	37.8±0.3	41.2±0.7	10±0.2	13±0.2
HEV10	DC500V	10A 15A 20A 25A 30A 40A 50A	65±1.0	53.5±1.0	39.4±1.0	10.4±0.1	13.6±0.3	5.2±0.2	6.6±0.2
HEV16	DC500V	20A 25A 32A 40A 50A 63A 80A 100A	76±1.5	63±1.5	51±1.5	17.8±0.3	19±0.7	9.5±0.3	6.5±0.3
HEV20	DC500V	50A 63A 80A 100A 125A 150A	98±1.5	76.5±1.5	47±1.5	23.5±0.3	26.3±0.7	9.5±0.3	14±0.3
HEV35	DC500V	200A 250A 300A 350A 400A	108±1.5	82±1.5	53±1.5	37.8±0.3	40.7±0.7	10±0.2	13±0.2
HEV14S	DC750V	10A 16A 20A 25A 32A 40A 50A 63A	75±1.0	63±1.0	51±1.0	14.4±0.1	17±0.3	6.5±0.2	7.5±0.2

Model	Voltage	Current range	A	B	C	D	E	F
JEV20	DC500V	50A 63A 80A 100A 125A 150A	81±1.5	60.2±1.5	40.5±1.5	22.5±0.3	8.8±0.2	10.8±0.2
JEV28	DC500V	100A 150A 200A 250A	91.5±1.5	73.5±1.5	52.5±1.5	30.7±0.3	9±0.2	11±0.2
JEV35S	DC500V	200A 250A 300A 350A 400A	102±1.5	78±1.5	51±1.5	37.8±0.3	11±0.2	16±0.2
JEV48S	DC500V	400A 450A 500A 550A 600A	108±1.5	78±1.5	54±1.5	50.6±0.3	11±0.2	16±0.2
JEV20L	DC750V	50A 63A 80A 100A 125A 150A	114±1.5	93.2±1.5	73±1.5	22.5±0.3	8.8±0.2	10.8±0.2
JEV28L	DC750V	100A 150A 200A 250A	110±1.5	92±1.5	71±1.5	30.7±0.3	9±0.2	11±0.2
JEV35	DC750V	200A 250A 300A 350A 400A	122±1.5	98±1.5	71±1.5	37.8±0.3	11±0.2	16±0.2
JEV48	DC750V	400A 450A 500A 550A 600A	128±1.5	98±1.5	74±1.0	50.6±0.3	11±0.2	16±0.2

Dimensions

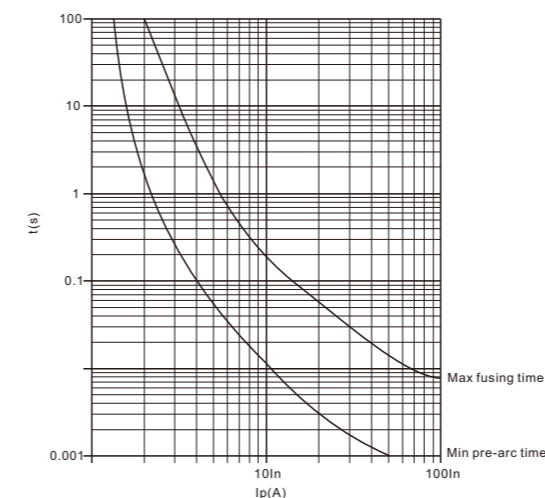


type H

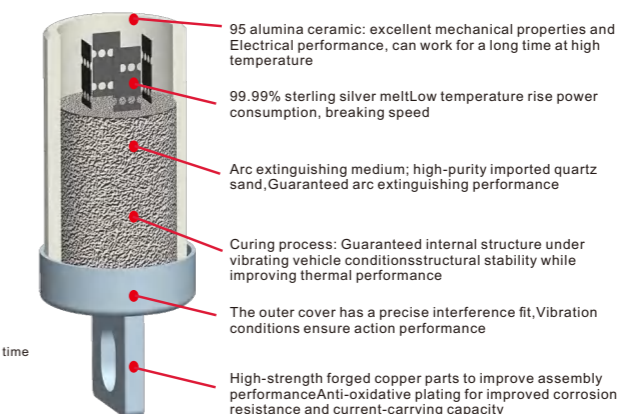


type J

Time current characteristic curve



Schematic



DC Isolating Switch

Application

S32D series DC isolating switch is applied to 1~20KW residential or commercial photovoltaic system, placed between photovoltaic modules and inverters. Arcing time is less than 8ms, that keeps solar system more safe. Max voltage is up to 1200V DC. It holds a safe lead among similar products.



S32D



S32D-T



S32D-TL

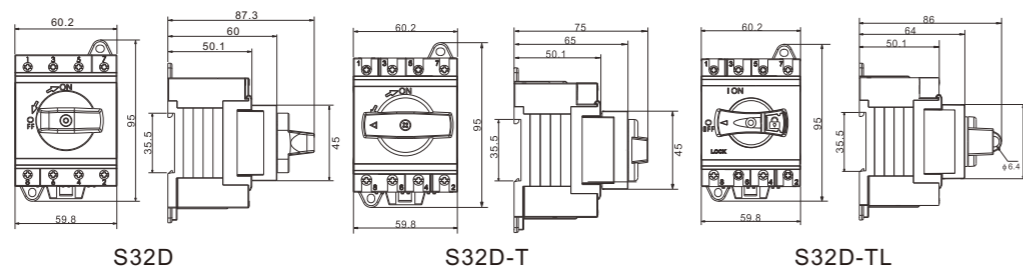
Specification

Rated current (A)	16, 25, 32
Standard	IEC60947-3, AS60947-3
Utilization category	DC-PV2/ DC-PV1/ DC-21B
Pole	4P
Rated frequency	DC
Rated operational voltage (Ue)	300V, 600V, 800V, 1000V, 1200V
Rated insulation voltage(Ui)	1200V
Rated short-time withstand current(I _{lew})	1kA, 1s
Rated impulsive withstand voltage(U _{imp})	8.0kV
Over voltage category	II
Suitability for isolation	Yes
Polarity	No polarity "+" and "-" polarities could be interchanged
Mechanical life	18000 times
Electrical life	2000 times
Storage temperature	-10°C +85°C
Mounting type	Vertically or horizontally
Pollution degree	III

Switching Configurations

Type	2-pole	4-pole	2-pole 4poles in series Input and Output bottom	2-pole 4poles in series Input and Output on top	2-pole 4poles in series Input on top Output bottom	2-pole 4 paralleled Poles
/	2P	4P	4T	4B	4S	2H
Contacts Wiring graph	5 7 6 8	1 3 5 7 2 4 6 8	1 3 5 7 2 4 6 8	1 3 5 7 2 4 6 8	1 3 5 7 2 4 6 8	1 3 5 7 2 4 6 8
Switching example						

Dimensions

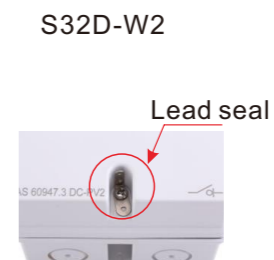


Feature

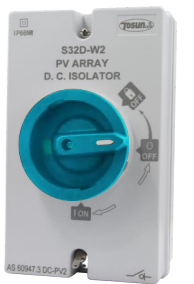
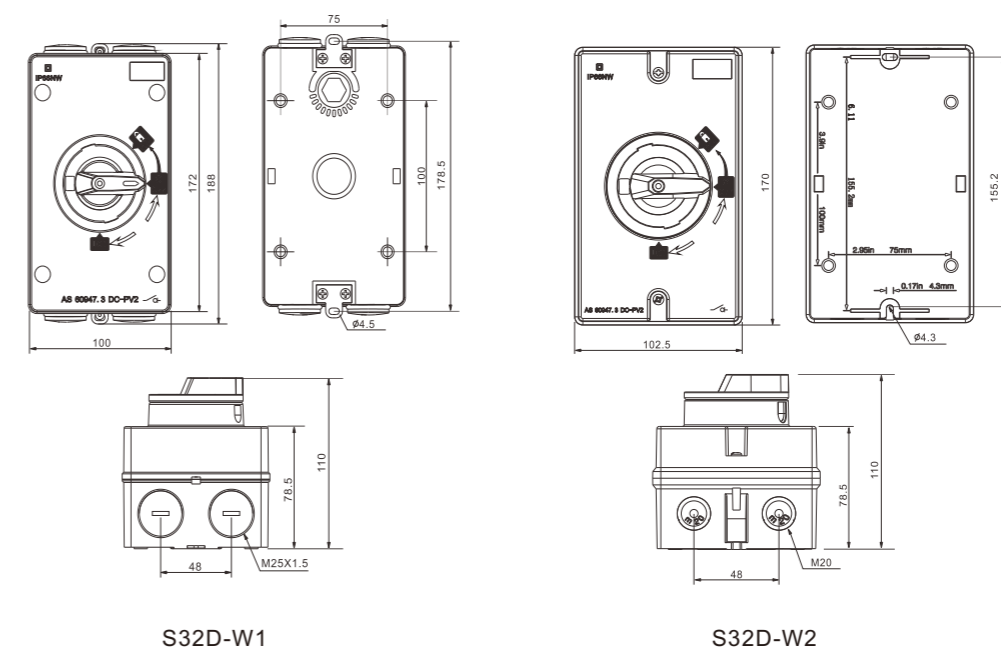
- IP66 and UV resistant
- The handle can be padlocked in the "OFF" position
- MC4 plugs with adaptor or cable gland can be selected for convenient connection and space saving
- IP66 air valve helps air flowing and reducing temperature
- 2 Pole, 4 Poles are available (Single | Double String)
- Standard: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



S32D-W1



Dimensions



S32D-W2

DC Moulded Case Circuit Breaker

Application

- Reliable protection at high ambient temperatures.
- Reclosable for minimum standstill times.
- Reliable disconnecting properties, switching under load.
- The products comply with IEC60947-2.



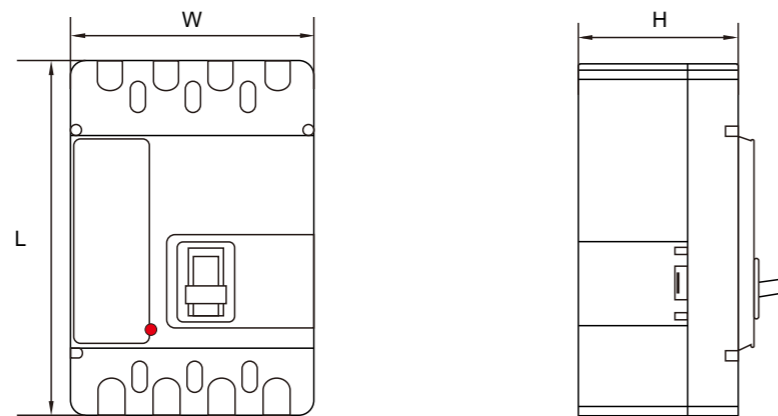
TSM6-PV-250 4P



TSM6-PV-500 4P

Specification

Model	TSM6-PV-250		TSM6-PV-500
Rated current In(A)	63,80,100,125,140,160,180,200,225,250		250,315,350,400,500
Rated operating voltage	DC1000V	DC1500V	DC1500V
Rated insulation voltage	1500V		
Number of poles	2P	4P	4P
Rated impact voltage	12000V		
Ultimated breaking capacity Icu	20KA		
Service breaking capacity ics	20KA		
Ambient temperature	-20°C~70°C		
Installation	Fixed, Plug-in		
Accessories	Auxiliary, Alarm, Shunt release, Manual operated and electric operation		
Dimensions	L	200	270
	W	90	180
	H	98.5	110



Bridge Rectifier



MDK-130A



MDK-250A



MDK-500A

Model	IF(AV)	VRRM	IRRM	VFM @ IFM		IF(RMS)	Tjm	Viso	Dimensions
	A	V	mA	V	A	A	°C	V(AC)	mm
MDK25A-16	25	500-2500	8	1.1	80	41	150	2500	92*20*35.5
MDK55A-16	55	500-2500	8	1.1	170	86	150	2500	92*20*35.5
MDK70A-16	70	500-2500	8	1.1	270	110	150	2500	92*20*35.5
MDK90A-16	90	500-2500	8	1.1	270	141	150	2500	94*25*37
MDK110A-16	110	500-2500	8	1.1	330	173	150	2500	94*25*37
MDK130A-16	130	500-2500	12	1.1	410	212	150	2500	94*25*37
MDK160A-16	160	500-2500	12	1.1	480	251	150	2500	94*34*35.5
MDK200A-16	200	500-2500	12	1.1	600	314	150	2500	94*34*35.5
MDK250A-16	250	500-2500	12	1.1	750	393	150	2500	94*34*35.5
MDK300A-16	300	500-2500	20	1.1	900	471	150	2500	115*53*53
MDK400A-16	400	500-2500	30	1.1	1050	550	150	2500	115*53*53
MDK500A-16	500	500-2500	40	1.1	1500	785	150	2500	115*53*53



MD-130A



MD-250A



MD-500A

Model	IF(AV)	VRRM	IRRM	VFM @ IFM		IF(RMS)	Tjm	Viso	Dimensions
	A	V	mA	V	A	A	°C	V(AC)	mm
MD25A-16	25	500-2500	8	1.1	80	41	150	2500	92*20*35.5
MD55A-16	55	500-2500	8	1.1	170	86	150	2500	92*20*35.5
MD70A-16	70	500-2500	8	1.1	270	110	150	2500	92*20*35.5
MD90A-16	90	500-2500	8	1.1	270	141	150	2500	94*25*37
MD110A-16	110	500-2500	8	1.1	330	173	150	2500	94*25*37
MD130A-16	130	500-2500	12	1.1	410	212	150	2500	94*25*37
MD160A-16	160	500-2500	12	1.1	480	251	150	2500	94*34*35.5
MD200A-16	200	500-2500	12	1.1	600	314	150	2500	94*34*35.5
MD250A-16	250	500-2500	12	1.1	750	393	150	2500	94*34*35.5
MD300A-16	300	500-2500	20	1.1	900	471	150	2500	115*53*53
MD400A-16	400	500-2500	30	1.1	1050	550	150	2500	115*53*53
MD500A-16	500	500-2500	40	1.1	1500	785	150	2500	115*53*53

Solar PV Connector



Cable Connector (MC4-1)



Cable Connector (MC4-1-P)



Cable Connector (MC4-1-CP)

Rated current	30A
Rated voltage	1500V DC (IEC) / 800V DC(UL)
Ambient temperature range	-40°C~+90°C(IEC)
Degree of protection	IP67 mated IP2X unmated
Contact resistance of plug connectors	0.5mΩ
Contact material	Copper, tin plated
Locking system plug connectors	Snap-in (nur/only MC4)
Flame class	UL94-HB/UL94-V0
Cable size	2.5mm ² ,4mm ² ,6mm ²



MC4-T2



MC4-T3



MC4-T4



MC4-T5

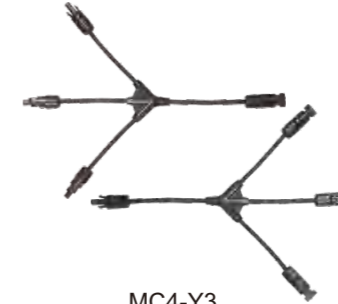


MC4-T6

Rated current	30A/50A
Rated voltage	1500V DC (IEC) / 800V DC(UL)
Ambient temperature range	-40°C~+90°C(IEC)
Degree of protection	IP67 mated IP2X unmated
Contact resistance of plug connectors	0.5mΩ
Contact material	Copper, tin plated
Locking system plug connectors	Snap-in (nurlon/y MC4)
Flame class	UL94-HB/UL94-V0
Cable size	2.5mm ² ,4mm ² ,6mm ²



MC4-Y2



MC4-Y3



MC4-Y4

Rated current	30A
Rated voltage	1500V DC (IEC) / 800V DC(UL)
Ambient temperature range	-40°C~+90°C(IEC)
Degree of protection	IP67 mated IP2X unmated
Contact resistance of plug connectors	0.5mΩ
Contact material	Copper, tin plated
Locking system plug connectors	Snap-in (nurlon/y MC4)
Flame class	UL94-HB/UL94-V0
Cable size	2.5mm ² ,4mm ² ,6mm ²



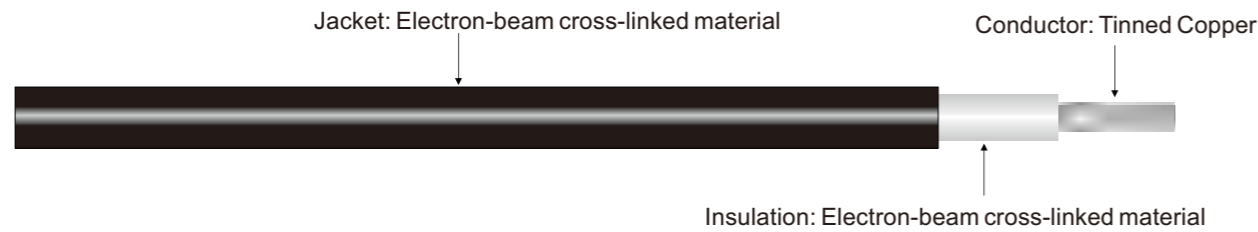
MC4-1F



TSPV-25

Rated current	30A
Rated voltage	1500V DC (IEC) / 800V DC(UL)
Ambient temperature range	-40°C~+90°C(IEC)
Degree of protection	IP67 mated IP2X unmated
Contact resistance of plug connectors	0.5mΩ
Contact material	Copper, tin plated
Locking system plug connectors	Snap-in (nur/only MC4)
Flame class	UL94-HB/UL94-V0
Cable size	2.5mm ² ,4mm ² ,6mm ²
Diode/Fuse type	Schottky diode/PV fuse

Solar PV Cable Single Core



Specification

Construction (mm ²)	Conductor construction (n x mm)	Conductor outer diameter (mm)	Cable outer diameter (mm)	Resistance max. Ω/ km	Current carrying capacity AT 60°C (A)
1x1.5	26x0.256	1.5	4.8	13.7	30
1x2.5	43x0.256	1.95	5.4	8.21	41
1x4.0	56x0.28	2.5	6.0	5.09	55
1x6.0	84x0.28	3	7.0	3.39	70
1x10	142x0.28	4	7.8	1.95	98
1x16	228x0.28	5.6	9.0	1.24	132
1x25	361x0.28	6.7	10.6	0.795	176
1x35	274x0.4	8.4	12.2	0.565	218

Nominal voltage	DC: 1.8KV AC:0.6/1.0KV
Voltage test on completed cable	AC: 6.5KV DC:15KV, 5min
Ambient temperature	-40°C~+90°C
Max. Temperature at conductor	+120°C
Service life	>25 year (-40°C~+90°C)
Refer to short circuit allows the temperature	200°C, 5s
Bending radius	≥4xø(D<8mm), ≥6xø(D≥8mm)
Resistance against acid and alkaline solution	EN60811-2-1
Cold bending test	EN60811-1-4
Weathering/UV - resistance	HD605/A1
0-zone resistance at complete cable	EN50396
Test under fire conditions	EN60332-1-2

Crimping Tool Kits for Solar System



TKS-01



TKS-02



TKS-03



TH-01S

Solar Terminal Crimping Tool
 Application: Solar Terminal MC4
 Crimping Capacity: 2.5/4/6.mm2 /AWG:14-10
 Length: 220mm



TH-02S

MC4 Solar Terminal Crimping Tool
 Application: Solar Terminal MC4
 Crimping Capacity: 2.5/4/6.mm2 /AWG: 14-10
 Length: 230mm



TH-03S

Solar Wire Stripping Tool
 Application: Wire stripping
 Stripping Range: 2.5/4.0/6.0 mm2
 Length: 175mm



TH-04S

Application: Stripping, cutting and crimping wire
Range: 0.6/0.8/1.0/1.3/1.6/2.0/2.6mm²



TH-05S

Solar Terminal Crimping Tool
 Application: Terminal MC4
 Crimping Capacity: 2.5/4.0/6.0mm2 / 13-10 AWG
 Length: 270mm



MC4 Spanner

Material: Plastic
Application: Loosen and tighten the connector and loosen the clasp

Inverter



TZ-1000M
Modified Wave Inverter



TZ-500S
Pure Sine Wave Inverter



TZ-2000M
Modified Wave Inverter

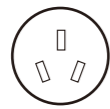


TZ-1000S
Pure Sine Wave Inverter

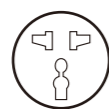
Available Socket



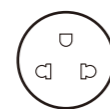
A: USA



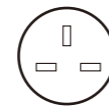
B: Australia



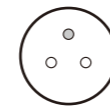
C: Universal



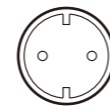
D: Europe-USA-Japan



E: UK



F: France



G: Germany

Application

- Pure sine wave output or modified wave output
- Low work noise, high efficiency.
- Small, light and artistic, benefited from adopting the SMD technology.
- Featured with high reliability and low failure rate by using the advanced Double-CPU single chip intellectual control technology.
- Cooling fan is intellectual controlled, and its working status is controlled by CPU, which boosts its service life and helps to save the power consumption, improve work efficiency and lower the work noise.
- With complete protection: overload protection, internal over-temperature protection, output short-circuit protection, input under-voltage protection, input over-voltage protection, etc, improving the reliability of the products greatly.

Specification

Input	Rated DC voltage	12V or 24V or 48V
	Voltage range	10-16VDC or 20-33VDC or 40-63VDC
	Efficiency	> 90%
	DC connection	Cables with Clips or Car Adaptor
Output	AC voltage	100/110/120VAC or 220/230/240 VAC
	Waveform	Pure sine wave / Modified wave
	Frequency	50Hz or 60Hz
	AC regulation	3%
Protection	Low voltage alarm	10.5DC±0.5V or 21DC±1V or 42VDC±1V or 100VDC±1V
	Low voltage shut down	10DC±0.5V or 20DC±1V or 40VDC±1V or 96VDC±5V

Specification

Pure sine wave

Model		TZ-300S	TZ-500S	TZ-600S	TZ-1000S	TZ-1500S
Input	Idling current	< 0.7A	< 0.5A		< 0.8A	< 0.8A
Output	Continuous power	300VA	500VA	600VA	1000VA	1500VA
	Surge power	600VA	1000VA	1200VA	2000VA	3000VA

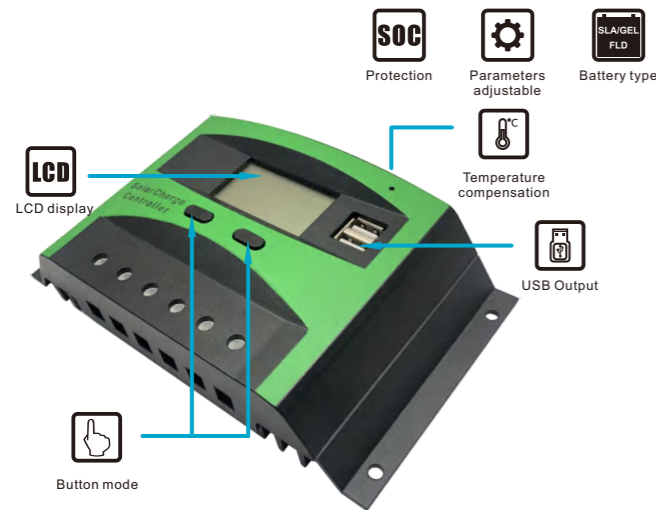
Model		TZ-2000S	TZ-3000S	TZ-4000S	TZ-5000S
Input	Idler load current	< 1.1A	< 2.5A		
Output	Continuous power	2000VA	3000VA	4000VA	5000VA
	Surge power	4000VA	6000VA	8000VA	10000VA

Modified wave

Model		TZ-300M	TZ-500M	TZ-600M	TZ-1000M
Input	Idling current	< 0.7A	< 0.5A		< 0.8A
Output	Continuous power	300VA	500VA	600VA	1000VA
	Surge power	600VA	1000VA	1200VA	2000VA

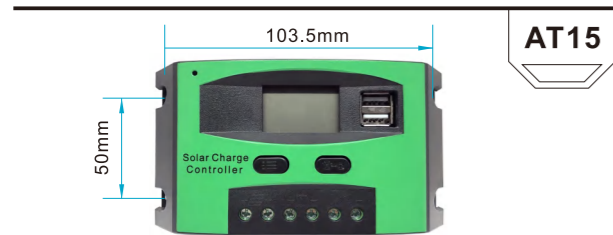
Model		TZ-1500M	TZ-2000M	TZ-3000M	TZ-4000M
Input	Idler load current	< 0.8A	< 1.1A	< 2.5A	
Output	Continuous power	1500VA	2000VA	3000VA	4000VA
	Surge power	3000VA	4000VA	6000VA	8000VA

Solar Charge Controller



Mounting hole size

Rated voltage	USB output	Rated charging current	Product size
12V/24V Auto	2A/5Vx2	10A/20A/30A	133x70x34mm



Mounting hole size

Rated voltage	USB output	Rated charging current	Product size
12V/24V Auto	2A/5Vx2	10A	143x76x38mm



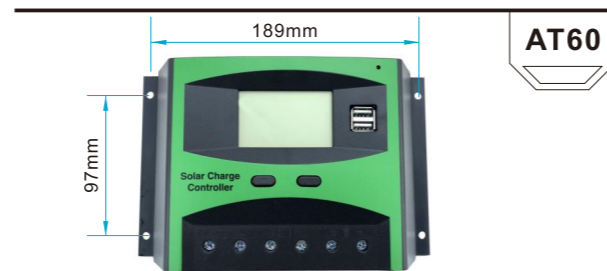
Mounting hole size

Rated voltage	USB output	Rated charging current	Product size
12V/24V Auto	2A/5Vx2	10A/20A	168x90x44mm



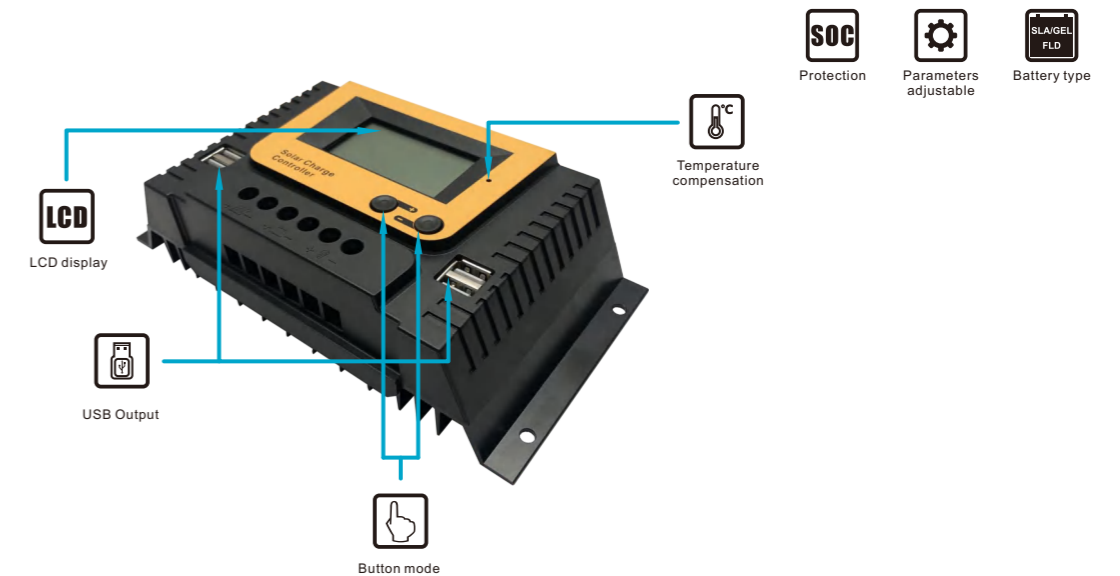
Mounting hole size

Rated voltage	USB output	Rated charging current	Product size
12V/24V Auto	2A/5Vx2	30A/40A	192.5x109x43mm



Mounting hole size

Rated voltage	USB output	Rated charging current	Product size
12V/24V Auto	2A/5Vx2	50A/60A	200x126x56mm



Mounting hole size

Rated voltage: 12V/24V/36V/48V Auto
 Rated charge current: 10A 20A
 USB port: 2A/5Vx4
 Product size: 168x88x36mm

VT20



Mounting hole size

Rated voltage: 12V/24V/36V/48V Auto
 Rated charge current: 30A 40A
 USB port: 2A/5Vx4
 Product size: 200x106x47mm

VT40



Mounting hole size

Rated voltage: 12V/24V/36V/48V Auto
 Rated charge current: 50A 60A 70A 80A
 USB port: 2A/5Vx4
 Product size:
 200x131.6x62mm(VT60)
 200x131.6x72mm(VT80)

VT60-VT80

Solar Pump Inverter



Voltage Degree

Model	-SS2	-S2	-2	-4
AC Input voltage (VAC)	1Phase 220(-15%)-240(+10%)		3Phase 220(-15%) ~240(+10%)	3Phase 380(-15%) ~440(+10%)
Output voltage (VAC)	1Phase 0~220V		3Phase 0~220V	
Max. DC voltage(VDC)	400		800	
Start-up voltage(VDC)	200		300	
Lowest working voltage(VDC)	150		250	
Recommend DC input voltage range (VDC)	200~400		300~750	
Recommend MPP voltage(V)	330		550	
Output frequency	0~300Hz			

Specification

Series	Model	Rated output power (kW)	Rated input current (A)	Rated output current (A)
-SS2(0.75kW-4kW)	TS9000SI-OR7G-SS2	0.75	9.3	7.2
	TS9000SI-1R5G-SS2	1.5	15.7	10.2
	TS9000SI-2R2G-SS2	2.2	24	14
	TS9000SI-004G-SS2	4	32	25
-S2(0.75kW-2.2kW)	TS9000SI-OR7G-S2	0.75	9.3	4.2
	TS9000SI-1R5G-S2	1.5	15.7	7.5
	TS9000SI-2R2G-S2	2.2	24	10
-4(0.75kW-110kW)	TS9000SI-OR7G-4	0.75	3.4	2.5
	TS9000SI-1R5G-4	1.2	5	4.2
	TS9000SI-2R2G-4	2.2	5.8	5.5
	TS9000SI-004G-4	4	13.5	9.5
	TS9000SI-5R5G-4	5.5	19.5	14
	TS9000SI-7R5G-4	7.5	25	18.5
	TS9000SI-011G-4	11	32	25
	TS9000SI-015G-4	15	40	32
	TS9000SI-018G-4	18.5	47	38
	TS9000SI-022G-4	22	51	45
	TS9000SI-030G-4	30	70	60
	TS9000SI-037G-4	37	80	75
	TS9000SI-045G-4	45	94	92
	TS9000SI-055G-4	55	128	115
	TS9000SI-075G-4	75	160	150
	TS9000SI-090G-4	90	190	180
	TS9000SI-110G-4	110	225	215
	TS9000SI-132G-4	132	265	260
	TS9000SI-160G-4	160	310	305
	TS9000SI-185G-4	185	345	340
TS9000SI-200G-4	200	385	380	
TS9000SI-250G-4	250	468	465	
TS9000SI-280G-4	280	525	520	
TS9000SI-315G-4	315	590	585	

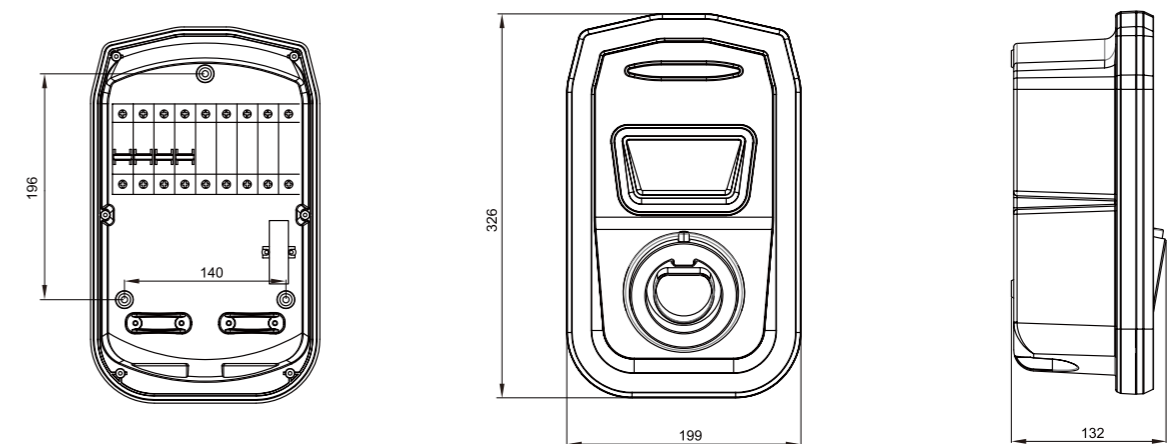
Electrical Car Charger



Specification

Type	E5T1132/E5T2132	E5T2332	E5T2232	E5T2432
AC power	1P+N+PE	3P+N+PE	1P+N+PE	3P+N+PE
Power supply voltage	AC230~±10%	AC400~±10%	AC230~±10%	AC400~±10%
Rated current	10-32A			
Maximum power	7.4kW	22kW	7.4kW	22kW
Frequency	50-60Hz			
Cable length	5m		Socket	
Sockets/plugs	Type1/Type2	Type2		
Weight	4.4kg	5.6kg	2.65kg	2.8kg
IP grade	IP55			
Working temperature	-40℃~+45℃			
Cooling way	natural cooling			
Shell color	white/black			
Flip shell	optional			
Special function	RCMU/DLB/RFID optional			
Installation mode	wall(default)/column			

Dimensions



Electrical Car Charger



Specification

Type	TC132	TC232	TC332	TC432
AC power	1P+N+PE		3P+N+PE	
Power supply voltage	AC 230V±15%		AC 400V±15%	
Rated current	10-32A			
Frequency	50-60HZ			
Cable length	5M	Socket	5M	Socket
Sockets/plugs	2*plug type 2(1)	2*socket type 2(1)	2*plug type 2(1)	2*socket type 2(1)
IP grade	IP55			
Environment temperature	-40℃~+45℃			
Humidity	no condensation			
Cooling way	natural cooling			
Dimension(D*W*Hmm)	240*340*120		395*260*125	
Weight(kg)	9.9	6.3	16	12
Installation mode	wall(default)/column			
Special function	RCMU/DLB optional			

Special Function

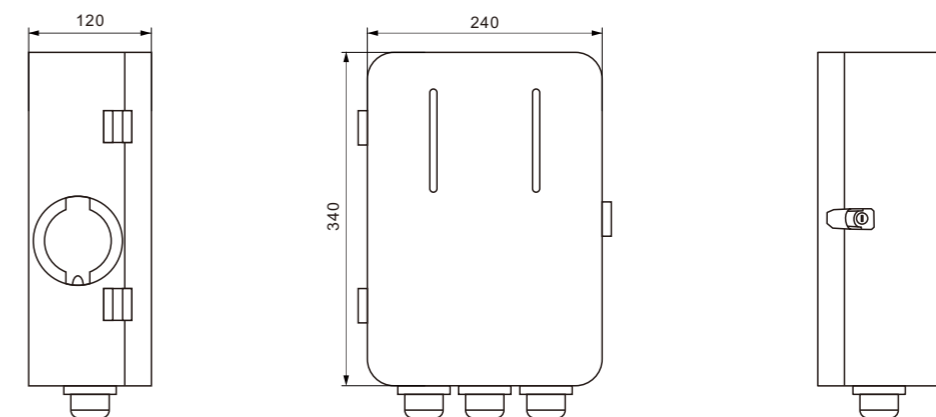
RCMU

If DC leakage occurs during charging process, the charging pile will be disconnected, automatically recovered after eliminating leakage fault without manual operation. The controller will automatically inspect RCMU before every charging process to confirm normal condition of RCMU.

DLB

Dynamic load balancing (DLB) type is designed for reasonable usage of household electricity by connecting an external transformer to the charging pile. When the total current volume detected by the transformer exceeds the set current, the charging pile will gradually decrease charging current until the charging pile stops charging. When the total current detected by the transformer is less than the set current after the peak of electricity consumption, the charging pile automatically starts to realize dynamic balancing by selecting suitable current for charging. The charging current of the charging pile is not fixed, varied from 10A to 32A based on actual requirement, which cannot be set.

Dimensions



Electrical Car Charger



Specification

Type	E3T1132/E3T2132	E3T2332	E3T2232	E3T2432
AC power	1P+N+PE	3P+N+PE	1P+N+PE	3P+N+PE
Power supply voltage	AC230~±10%	AC400~±10%	AC230~±10%	AC400~±10%
Rated current	10-32A			
Maximum power	7.4kW	22kW	7.4kW	22kW
Frequency	50-60Hz			
Cable length	5m		Socket	
Sockets/plugs	Type1/Type2	Type2		
Weight	5.5kg	6.8kg	3.45kg	3.7kg
IP grade	IP55			
Working temperature	-40℃~+45℃			
Cooling way	natural cooling			
Shell color	white/black			
Special function	RCMU/DLB/RFID optional			
Installation mode	wall(default)/column			

Dimensions

