

Thinkwe



Product catalogue

www.thinkwe-tech.com

TW-202203V7.0




About Thinkwe |

Thinkwe Technology is a professional electrical manufacturer dedicated to the safety of PV applications for over 12 years. The main products include Firefighter Safety Switch and Surge Protector Device. As of today, we have already shipped more than 80000 units worldwide.

Thinkwe Technology have 2 R&D bases in Wuxi and Xiamen, with a production base of 4000 m² in Wuxi. With our 40+ professional R&D team, our company is able to provide the market with state-of-the-art products.


Thinkwe Technology is devoted to making PV systems safer for everyone, which we believe is of vital importance to a fast-growing renewable energy market all over the World.

 R&D centers
2

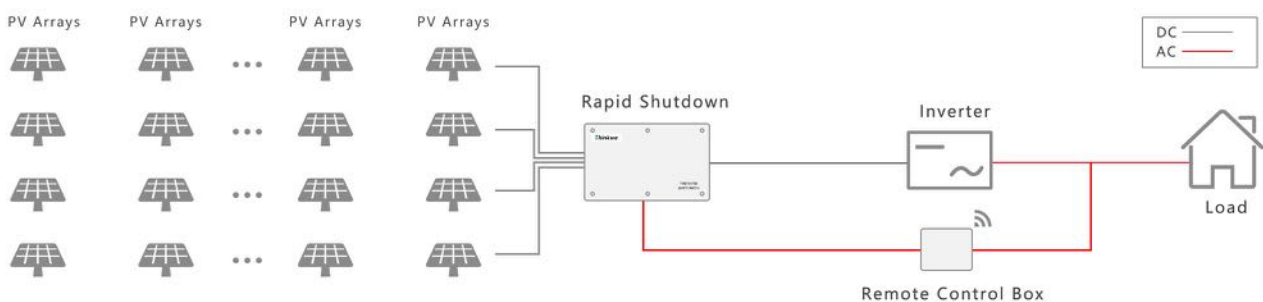
 Engineers
40

 Employees
200

 Core patents
12

 Years of experience
6

 Supply of units
80,000



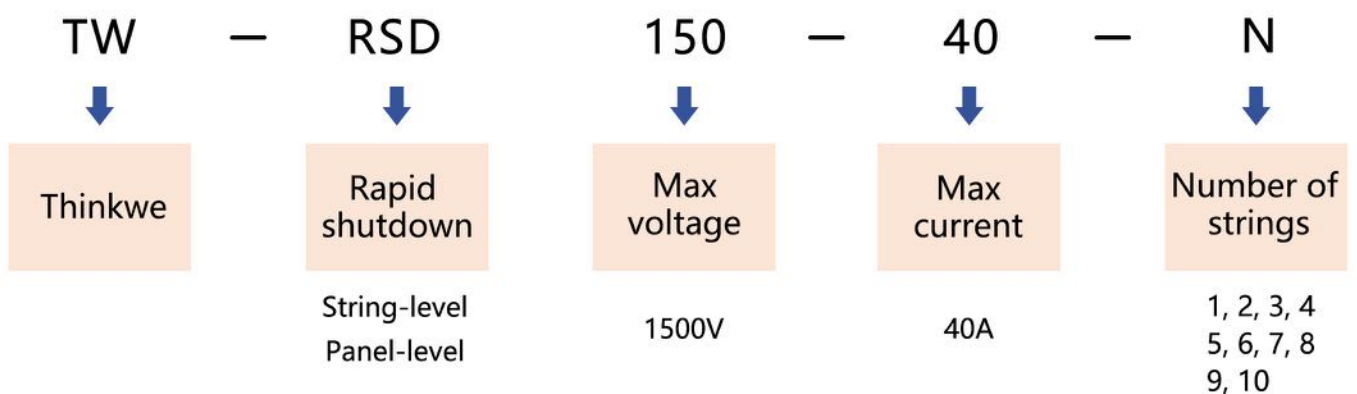
Rapid Shutdown



Feature

- 1~10 strings available
- UP to 40 A
- UP to 1500 V
- CE certification
- IP65 protection & anti UV
- APP remote control
- Shutdown feedback signal
- Auto shutdown exceeding 70°C
- 10000 mechanical life cycles
- Isolator with CE, CB, TUV, SAA

Select Code



Technical Data

Thinkwe

Model	TW-RSD150-40-1	TW-RSD150-40-2
Main loop parameters		
Number of strings	1	2
Max DC voltage	1500 Vdc	
Max DC current	40 A	
Parameters	1500V26A,1000V40A,600V40A	
DC connector	MC4	
Control loop parameters		
Power supply type	AC single phase	
Nominal voltage	230Vac	
Operating voltage	100-270 Vac	
Nominal frequency	50 Hz	
Operating frequency	47-53 Hz	
Nominal current	30mA	
Max current	300mA	
AC connector	Plug-in	
Product parameters		
Protection degree	IP 65	
Protection level	Class II	
Certification	CE	
Switch according to	EN 60947-3	
Number of operations	>10000	
N. of operations under load	>1500	
Operating temperature	-20°C ~ 70°C	
Temperature sensor trigger	70°C	
Warranty	5 years	
Dimensions (L*W*H)	265 * 280 * 115	
Weight	2950 g	3130 g

Technical Data

Thinkwe

Model	TW-RSD150-40-3	TW-RSD150-40-4
Main loop parameters		
Number of strings	3	4
Max DC voltage	1500 Vdc	
Max DC current	40 A	
Parameters	1500V26A,1000V40A,600V40A	
DC connector	MC4	
Control loop parameters		
Power supply type	AC single phase	
Nominal voltage	230Vac	
Operating voltage	100-270 Vac	
Nominal frequency	50 Hz	
Operating frequency	47-53 Hz	
Nominal current	30mA	
Max current	300mA	
AC connector	Plug-in	
Product parameters		
Protection degree	IP 65	
Protection level	Class II	
Certification	CE	
Switch according to	EN 60947-3	
Number of operations	>10000	
N. of operations under load	>1500	
Operating temperature	-20°C ~ 70°C	
Temperature sensor trigger	70°C	
Warranty	5 years	
Dimensions (L*W*H)	300 * 280 * 115	350 * 280 * 115
Weight	3440 g	3950 g

Technical Data

Thinkwe

Model	TW-RSD150-40-5	TW-RSD150-40-6
Main loop parameters		
Number of strings	5	6
Max DC voltage	1500 Vdc	
Max DC current	40 A	
Parameters	1500V26A,1000V40A,600V40A	
DC connector	MC4	
Control loop parameters		
Power supply type	AC single phase	
Nominal voltage	230Vac	
Operating voltage	100-270 Vac	
Nominal frequency	50 Hz	
Operating frequency	47-53 Hz	
Nominal current	30mA	
Max current	300mA	
AC connector	Plug-in	
Product parameters		
Protection degree	IP 65	
Protection level	Class II	
Certification	CE	
Switch according to	EN 60947-3	
Number of operations	>10000	
N. of operations under load	>1500	
Operating temperature	-20°C ~ 70°C	
Temperature sensor trigger	70°C	
Warranty	5 years	
Dimensions (L*W*H)	348 * 270 * 137	348 * 270 * 137
Weight	4700 g	5200 g

Technical Data

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Model	TW-RSD150-40-7	TW-RSD150-40-8
Main loop parameters		
Number of strings	7	8
Max DC voltage	1500 Vdc	
Max DC current	40 A	
Parameters	1500V26A,1000V40A,600V40A	
DC connector	MC4	
Control loop parameters		
Power supply type	AC single phase	
Nominal voltage	230Vac	
Operating voltage	100-270 Vac	
Nominal frequency	50 Hz	
Operating frequency	47-53 Hz	
Nominal current	30mA	
Max current	300mA	
AC connector	Plug-in	
Product parameters		
Protection degree	IP 65	
Protection level	Class II	
Certification	CE	
Switch according to	EN 60947-3	
Number of operations	>10000	
N. of operations under load	>1500	
Operating temperature	-20°C ~ 70°C	
Temperature sensor trigger	70°C	
Warranty	5 years	
Dimensions (L*W*H)	348 * 330 * 173	348 * 330 * 173
Weight	5800 g	6300 g

Technical Data

Thinkwe

Model	TW-RSD150-40-9	TW-RSD150-40-10
Main loop parameters		
Number of strings	9	10
Max DC voltage	1500 Vdc	
Max DC current	40 A	
Parameters	1500V26A,1000V40A,600V40A	
DC connector	MC4	
Control loop parameters		
Power supply type	AC single phase	
Nominal voltage	230Vac	
Operating voltage	100-270 Vac	
Nominal frequency	50 Hz	
Operating frequency	47-53 Hz	
Nominal current	30mA	
Max current	300mA	
AC connector	Plug-in	
Product parameters		
Protection degree	IP 65	
Protection level	Class II	
Certification	CE	
Switch according to	EN 60947-3	
Number of operations	>10000	
N. of operations under load	>1500	
Operating temperature	-20°C ~ 70°C	
Temperature sensor trigger	70°C	
Warranty	5 years	
Dimensions (L*W*H)	348 * 330 * 195	348 * 330 * 195
Weight	6500 g	7000 g

Remote Control Box

Thinkwe



Feature

- For string level RSD
- APP remote control
- Manual control
- Anti UV
- IP65 protection
- Over current protection

Technical Data

Model	TW-RSD-BOX
Power supply type	AC single phase
Nominal voltage	230 Vac
Operating voltage	100-270 Vac
Nominal frequency	50Hz
Operating frequency	47-53Hz
Operating temperature	-20°C ~ 70°C
Protection degree	IP65
AC connector	Plug-in
Warranty	5years

Rapid Shutdown



Feature

- Panel level
- UP to 15A
- UP to 1500V
- IP68 protection
- PLC communication
- 12 years warranty

Technical Data

Model	TW-RSD-PL-1	TW-RSD-PL-2
Number of panel	1	2
Max. DC voltage	60V	
Max. DC current	15A	
Max. system voltage	1500V	
Operating temperature range	-40°C ~ +65°C	
Length of cable	1000mm(Panel),200mm(String)	
Ingress protection	IP68	

Model	TW-RSD-PL-BOX
Number of string	2
Communication type	PLC
Operating temperature range	-40°C ~ +65°C
Ingress protection	IP68
Operating AC voltage range	100V - 240V
Norminal frequency	50 / 60 Hz

PV DC Surge protector device

Feature

- Focus on PV application
- High reliability
- Up to 1500V
- Up to 40kA
- Wide temperature range



Technical Data

The main technical parameters

Model and specification	TW-SPD-600PV	TW-SPD-1000PV	TW-SPD-1500PV
According to the standard	EN 61643-11:2012+A11:2018		
Number of pole	2P	3P	3P
Rated operating voltage	600	1000	1500
Max operating voltage	660	1200	1800
Protection level(In) Up	1.8kV	3.5kV	4.5kV
Nominal discharge current(In)	20kA(8/20uS)		
Max discharge current(I _{max})	40kA(8/20uS)		
Response time	<25nS		
Range of working temperature	-30°C-70°C		
Housing material	PA6 UL94 V-O		
Protection grade	IP20		
Remote signaling device	option		
Warranty	2 years		
Indication of invalidation	Green is normal.Red is invalidation		
Installation	The card is attached to the 35 mm rail		

PV AC Surge protector device



Feature

- 1-4P available
- Up to 40kA
- Focus on PV application
- High reliability
- Wide temperature range

Technical Data

The main technical parameters

Model and specification	TW-SPD40-1N	TW-SPD40-2	TW-SPD40-	TW-SPD40-4
According to the standard	EN 61643-11:2012+A11:2018			
Number of pole	1NP	2P	3P	4P
Protection level(In) Up	2.0kV			
Nominal discharge current(In)	20kA(8/20uS)			
Max discharge current(I _{max})	40kA(8/20uS)			
Response time	<25nS			
Range of working temperature	-30°C-70°C			
Housing material	PA6 UL94 V-O			
Protection grade	IP20			
Remote signaling device	Option			
Warranty	2 years			
Indication of invalidation	Green is normal.Red is invalidation			
Installation	The card is attached to the 35 mm rail			

Thinkwe

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