

Golden Solar! Advance Power! Green Life!

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Shenzhen SOPOWER Technology Co., Ltd.

SOPOWER PROFILE

SHENZHEN SOPOWER TECHNOLOGY CO., LTD.

(abbr: SOPOWER) is a high-tech company, focuses on researching, manufacturing, integrating design and salering power electronics.

Energy storage and energy efficiency management are critical to reducing carbon emissions and promoting sustainable development. SOPOWER covers 65 000 square meters, with over 600 employees, is dedicated to reducing electricity costs, improving electricity efficiency, provides energy-saving services for power systems, communication systems, financial systems, education systems, medical systems, and large industrial and mining enterprises, helping customers meet their energy management goals while contributing to a more sustainable future for all.

600+
Company Personnel



6500+
Plant Area



15+
Years Production Experience



BMS Platform
12V~1500V Voltage Class



130+
Countries Global Deliveries



100+
Intellectual Property



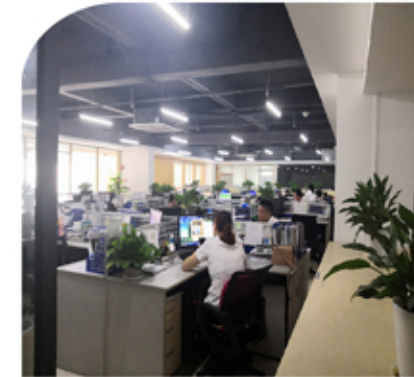
3GWH+
Delivered Capacity



50+
R&D Personnel



Our Factory



Office



SMT Dustproof Line



PCBA DIP Line



Assemble Lines



Finished Product Test Line



Warehouse

Certification



SOPOWER's facilities are certified by ISO9001, and its products are also recognized by CE, UL, TUV, ROHS, FCC etc. to assure quality and safety.



Huizhou Plant



Features



Efficient Higher Revenue

- 2 MPP Trackers, Max. input current per string: 20A
- 150% DC input oversizing
- Maximum efficiency of 98.4%. Wide MPPT voltage range: 200V-1000V
- Compatible with high power modules



Intelligent Simple O&M

- Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automatically detect faults
- Intelligent Fault Detection: AC side voltage and current waveforms real-time recorded, fast fault location
- Support RS485/WiFi/4G: remote monitoring and operation via PC or mobile phones



Reliable Worry Free

- IP66 Protection degree: support outdoor installation
- AFCI Function (Optional): when an arc-fault is detected the inverter immediately stops operation

Data Sheet

Model	SG-3K	SG-4K	SG-5K	SG-6K	SG-8K	SG-10K
Input (DC)						
Max. Input Power	4.5KW	6KW	7.5KW	9KW	12KW	15KW
Max. Input Voltage	600V					
Start Voltage	80V					
Rated Input Voltage	360V					
MPPT Voltage Range	50~550V					
Number of MPP Trackers	2					
Number of String per MPPT	1/1					
Max. Current per MPPT	20A					
Max. Short Circuit Current per MPPT	26A					
Output (AC)						
Rated Output Power	3KW	4KW	5KW	6KW	8KW	10KW
Max. Output Current	15A	20A	25A	30A	40A	45.5A
Max. Output Power	3.3KVA	4.4KVA	5.5KVA	6.6KVA	8.8KVA	10KVA
Rated Grid Frequency	50Hz / 60Hz					
Rated Grid Voltage	220Vac / 230Vac / 240Vac					
Power Factor	> 0.99 (0.8 leading ~ 0.8 lagging)					
THDi	< 3% (Rated power)					
Efficiency						
Max. Efficiency	98.10%	98.30%			98.10%	
Euro. Efficiency	97.30%	97.40%			97.30%	
MPPT Efficiency	99.90%					
Protection						
Protection	DC reverse polarity protection, anti-islanding protection, AC short circuit protection, residual current monitoring unit, insulation resistance monitoring, ground fault monitoring, grid monitoring, PV string monitoring, surge protection, DC switch (optional), AFCI protection (optional)					
Communication						
Display	LCD / LED + APP					
Communication	RS485 / WIFI / 4G					
Standard Compliance						
Certification	IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, EN50549, IEC61727/IEC62116, CEI0-21, C10/C11, G98/G99, RD244, UNE217001, UNE217002, TOR Erzeuger, AS4777, ABNT, NB/T 32004					
General Data						
Dimension (W*H*D) mm	380*380*160					
Weight	13KG					
Operating Temperature Range	-30°C~+60°C					
Cooling Method	Natural cooling					Smart Cooling
Protection Degree	IP66					
Max. Operating Altitude	4000m					
Relative Humidity	0~100%					
Topology	Transformerless					
Night Power Consumption	< 1W					



Features



Efficient Higher Revenue

- 2 MPP Trackers, high single circuit tracking accuracy, fast dynamic response
- 160% DC input oversizing
- Maximum efficiency of 98.4%. Wide MPPT voltage range: 200V-1000V
- Compatible with high power modules



Intelligent Simple O&M

- Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automatically detect faults
- Intelligent Fault Detection: AC side voltage and current waveforms real-time recorded, fast fault location
- Support RS485 (WiFi/GPRS/Ethernet optional): remote monitoring and operation via PC or mobile phones



Reliable Worry Free

- IP66 Protection degree: support outdoor installation
- DC & AC Type II SPD: prevent lightning damage
- AFCI Function (Optional): when an arc-fault is detected the inverter immediately stops operation

Data Sheet

Model	TG-3K	TG-4K	TG-5K	TG-6K	TG-8K	TG-10K	TG-12K	TG-15K
Input (DC)								
Max. Input Power	4.8KW	6.4KW	8KW	9.6KW	12.8KW	16KW	19.2KW	24KW
Max. Input Voltage	1100V							
Start Voltage	200V							
Rated Input Voltage	600V							
MPPT Voltage Range	180-1000V							
Number of MPP Trackers	2							
Number of String per MPPT	1/1							
Max. Current per MPPT	18A							
Max. Short Circuit Current per MPPT	25A							
Output (AC)								
Rated Output Power	3KW	4KW	5KW	6KW	8KW	10KW	12KW	15KW
Max. Output Current	4.8A	6.4A	8A	9.6A	12.8A	15.9A	19.1A	23.9A
Max. Output Power	3.3KVA	4.4KVA	5.5KVA	6.6KVA	8.8KVA	11KVA	13.2KVA	16.5KVA
Rated Grid Frequency	50Hz / 60Hz							
Rated Grid Voltage	230Vac / 400Vac, 3L / N / PE							
Power Factor	> 0.99 (0.8 leading ~ 0.8 lagging)							
THDi	< 3% (Rated power)							
Efficiency								
Max. Efficiency	98.40%				98.70%			
Euro. Efficiency	98.30%				98.50%			
MPPT Efficiency	99.90%							
Protection								
Protection	DC reverse polarity protection, anti-islanding protection, AC short circuit protection, residual current monitoring unit, insulation resistance monitoring, ground fault monitoring, grid monitoring, surge protection(Type II), AFCI protection (optional)							
Communication								
Display	LCD / LED + APP							
Communication	Standard: RS485, optional: WIFI / GPRS / Ethernet							
Standard Compliance								
Certification	IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, IEC61683, IEC60068, IEC61727/IEC62116, EN50549, CEI0-21, C10/C11, VDE 4105, VDE 0124, G98/G99, RD244, UNE217001, UNE217002, NC RfG, TOR Erzeuger, AS4777, ABNT, NB/T 32004, BIS							
General Data								
Dimension (W*H*D) mm	481*390*190							
Weight	12KG				13.5KG			
Operating Temperature Range	-30°C~+60°C							
Cooling Method	Natural cooling							Smart Cooling
Protection Degree	IP66							
Max. Operating Altitude	4000m							
Relative Humidity	0~100%							
Topology	Transformerless							
Night Power Consumption	< 1W							



Features



Efficient Higher Revenue

- 2 MPP Trackers, high single circuit tracking accuracy, fast dynamic response
- 160% DC input oversizing
- Maximum efficiency of 98.4%. Wide MPPT voltage range: 200V-1000V
- Compatible with high power modules



Intelligent Simple O&M

- Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automatically detect faults
- Intelligent Fault Detection: AC side voltage and current waveforms real-time recorded, fast fault location
- Support RS485 (WiFi/GPRS/Ethernet optional): remote monitoring and operation via PC or mobile phones



Reliable Worry Free

- IP66 Protection degree: support outdoor installation
- DC & AC Type II SPD: prevent lightning damage
- AFCI Function (Optional): when an arc-fault is detected the inverter immediately stops operation

Data Sheet

Model	TG-17K	TG-20K	TG-22K	TG-25K
Input (DC)				
Max. Input Power	27.2KW	32KW	35.2KW	40KW
Max. Input Voltage	1100V			
Start Voltage	250V			
Rated Input Voltage	600V			
Full-load MPP Voltage Range	480-800V		520-800V	560-800V
MPPT Voltage Range	200-1000V			
Number of MPP Trackers	2			
Number of String per MPPT	2/2			2/3
Max. Current per MPPT	32A			32A/48A
Max. Short Circuit Current per MPPT	40A			40A/60A
Output (AC)				
Rated Output Power	17KW	20KW	22KW	25KW
Max. Output Current	27.2	32.1A	35.3A	39.8A
Max. Output Power	18.8KVA	22.2KVA	24.4KVA	27.5KVA
Rated Grid Frequency	50Hz / 60Hz			
Rated Grid Voltage	230Vac / 400Vac, 3L / N / PE			
Power Factor	> 0.99 (0.8 leading ~ 0.8 lagging)			
THDi	< 3% (Rated power)			
Efficiency				
Max. Efficiency	98.40%			
Euro. Efficiency	98.00%			
MPPT Efficiency	99.90%			
Protection				
Protection	DC reverse polarity protection, anti-islanding protection, AC short circuit protection, residual current monitoring unit, insulation resistance monitoring, ground fault monitoring, grid monitoring, PV string monitoring, surge protection(Type II), AFCI protection (optional)			
Communication				
Display	LCD / LED + APP			
Communication	Standard: RS485, optional: WIFI / GPRS / Ethernet			
Standard Compliance				
Certification	IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, IEC60068, IEC61683, EN 50549, IEC61727/IEC62116, CEI 0-2 C10/C11, VDE 4105, VDE 0124, RD244, UNE217001, UNE217002, NC RfG, AS4777, NB/T 32004, BIS			
General Data				
Dimension (W*H*D) mm	534*440*220			
Weight	24KG			
Operating Temperature Range	-30°C~+60°C			
Cooling Method	Smart cooling			
Protection Degree	IP66			
Max. Operating Altitude	4000m			
Relative Humidity	0~100%			
Topology	Transformerless			
Night Power Consumption	< 1W			



Features



Efficient Higher Revenue

- 3-4 MPP Trackers, high single circuit tracking accuracy, fast dynamic response
- 160% DC input oversizing
- Maximum efficiency of 98.6%. Wide MPPT voltage range: 200V-1000V
- Compatible with high power modules



Intelligent Simple O&M

- Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automatically detect faults
- Intelligent Fault Detection: AC side voltage and current waveforms real-time recorded, fast fault location
- Support RS485 (WiFi/GPRS/Ethernet optional): remote monitoring and operation via PC or mobile phones



Reliable Worry Free

- IP66 Protection degree: support outdoor installation
- DC & AC Type II SPD: prevent lightning damage
- AFCI Function (Optional): when an arc-fault is detected the inverter immediately stops operation

Data Sheet

Model	TG-30K	TG-33K	TG-36K	TG-40K
Input (DC)				
Max. Input Power	48KW	52.8KW	57.6KW	64KW
Max. Input Voltage	1100V			
Start Voltage	250V			
Rated Input Voltage	600V			
Full-load MPP Voltage Range	500-800V			
MPPT Voltage Range	200-1000V			
Number of MPP Trackers	3		4	
Number of String per MPPT	2			
Max. Current per MPPT	26A			
Max. Short Circuit Current per MPPT	32A			
Output (AC)				
Rated Output Power	30KW	33KW	36KW	40KW
Max. Output Current	48.3A	53A	57.8A	64.3A
Max. Output Power	33.3KVA	36.6KVA	39.6KVA	44KVA
Rated Grid Frequency	50Hz / 60Hz			
Rated Grid Voltage	230Vac / 400Vac, 3L / N / PE			
Power Factor	> 0.99 (0.8 leading ~ 0.8 lagging)			
THDi	< 3% (Rated power)			
Efficiency				
Max. Efficiency	98.60%			
Euro. Efficiency	98.50%			
MPPT Efficiency	99.90%			
Protection				
Protection	DC reverse polarity protection, anti-islanding protection, AC short circuit protection, residual current monitoring unit, insulation resistance monitoring, ground fault monitoring, grid monitoring, PV string monitoring, surge protection(Type II), AFCI protection (optional)			
Communication				
Display	LCD / LED + APP			
Communication	Standard: RS485, optional: WIFI / GPRS / Ethernet			
Standard Compliance				
Certification	IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, EN50549, IEC61727/IEC62116, CEI 0-21,C10/C11, VDE 4105, VDE 0124, RD244, UNE217001, UNE217002, NC RfG, TOR Erzeuger, AS4777, NRS097-2-1, NB/T 32004, BIS			
General Data				
Dimension (W*H*D) mm	600*430*230			
Weight	30KG		32KG	
Operating Temperature Range	-30°C~+60°C			
Cooling Method	Smart cooling			
Protection Degree	IP66			
Max. Operating Altitude	4000m			
Relative Humidity	0~100%			
Topology	Transformerless			
Night Power Consumption	< 1W			



Features



Efficient Higher Revenue

- 4 MPP Trackers, high single circuit tracking accuracy, fast dynamic response and higher power generation
- 160% DC input oversizing
- Wide MPPT voltage range: 200V-1000V
- Compatible with high power modules



Intelligent Simple O&M

- Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automatically detect faults
- Intelligent Fault Detection: AC side voltage and current waveforms real-time recorded, fast fault location
- Support RS485 (WiFi/GPRS/Ethernet optional): remote monitoring and operation via PC or mobile phones



Reliable Worry Free

- IP66 Protection degree: support outdoor installation
- DC & AC Type II SPD: prevent lightning damage
- AFCI Function (Optional): when an arc-fault is detected the inverter immediately stops operation

Data Sheet

Model	TG-50K	TG-50KL	TG-60K	TG-60KL	TG-66KL	TG-70KL
Input (DC)						
Max. Input Power	80KW		96KW		105.6KW	112KW
Max. Input Voltage	1100V					
Start Voltage	250V					
Rated Input Voltage	600V				700V	
Full-load MPP Voltage Range	520-850V				600V-850V	
MPPT Voltage Range	200-1000V					
Number of MPP Trackers	4					
Number of String per MPPT	3/2/3/2		3/3/3/3			
Max. Current per MPPT	39A/26A/39A/26A		39A			
Max. Short Circuit Current per MPPT	48A/32A/48A/32A		48A			
Output (AC)						
Rated Output Power	50KW		60KW		66KW	70KW
Max. Output Current	79.7A	66.2A	95.6A	79.4A	87.4A	92.6A
Max. Output Power	55KVA		66KVA		72.6KVA	77KVA
Rated Grid Frequency	50Hz / 60Hz					
Rated Grid Voltage	230Vac / 400Vac	277Vac / 480Vac	230Vac / 400Vac	277Vac / 480Vac		
Power Factor	> 0.99 (0.8 leading ~ 0.8 lagging)					
THDi	< 3% (Rated power)					
Efficiency						
Max. Efficiency	98.70%		98.80%			
Euro. Efficiency	98.40%				98.50%	
MPPT Efficiency	99.90%					
Protection						
Protection	DC reverse polarity protection, anti-islanding protection, AC short circuit protection, residual current monitoring unit, insulation resistance monitoring, ground fault monitoring, grid monitoring, PV string monitoring, surge protection(Type II), AFCI protection (optional)					
Communication						
Display	LCD / LED + APP					
Communication	Standard: RS485, optional: WIFI / GPRS / Ethernet					
Standard Compliance						
Certification	IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, EN50549, IEC61727/IEC62116, CEI 0-21,CEI 0-16, C10/C11, VDE 4105, VDE 0124, G99, RD244, UNE217001, UNE217002, NC RfG, NRS097-2-1, NB/T 32004, BIS					
General Data						
Dimension (W*H*D) mm	650*450*260					
Weight	50KG					
Operating Temperature Range	-30°C~+60°C					
Cooling Method	Smart cooling					
Protection Degree	IP66					
Max. Operating Altitude	4000m					
Relative Humidity	0~100%					
Topology	Transformerless					
Night Power Consumption	< 1W					



Features



Efficient Higher Revenue

- 49-12 MPP Trackers, high single circuit tracking accuracy, fast dynamic response and higher power generation
- 150% DC input oversizing
- Maximum efficiency of 98.7%. Wide MPPT voltage range: 180V-1000V
- Compatible with high power modules



Intelligent Simple O&M

- Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automatically detect faults
- Intelligent Fault Detection: AC side voltage and current waveforms real-time recorded, fast fault location
- Support RS485 (WiFi/DRM/Bluetooth optional): remote monitoring and operation via PC or mobile phones



Reliable Worry Free

- IP66 Protection degree: support outdoor installation
- DC & AC Type II SPD: prevent lightning damage
- AFCI Function (Optional): when an arc-fault is detected the inverter immediately stops operation

Data Sheet

Model	TG-100K	TG-110K	TG-136K	TG-136KL
Input (DC)				
Max. Input Power	150KW		160KW	
Max. Input Voltage	1100V			
Start Voltage	250V			
Rated Input Voltage	620V	560-850V		
Full-load MPP Voltage Range	180-1000V			
MPPT Voltage Range	200-1000V			
Number of MPP Trackers	9	10	12	
Number of String per MPPT	2			
Max. Current per MPPT	30A			
Max. Short Circuit Current per MPPT	40A			
Output (AC)				
Rated Output Power	100KW	110KW	136KW	
Max. Output Current	158.8A	174.6A		160.4A
Max. Output Power	110KVA	121KVA	150KVA	
Rated Grid Frequency	50Hz / 60Hz			
Rated Grid Voltage	230Vac / 400Vac, 3L/N/PE, 3L/PE	277Vac / 480Vac, 3L/N/PE, 3L/PE		311Vac / 540Vac, 3L/N/PE, 3L/PE
Power Factor	> 0.99 (0.8 leading ~ 0.8 lagging)			
THDi	< 3% (Rated power)			
Efficiency				
Max. Efficiency	98.70%			
Euro. Efficiency	98.50%			
MPPT Efficiency	99.90%			
Protection				
Protection	DC reverse polarity protection, anti-islanding protection, AC short circuit protection, residual current monitoring unit, insulation resistance monitoring, ground fault monitoring, grid monitoring, PV string monitoring, surge protection(Type II), AFCI protection (optional)			
Communication				
Display	LCD / LED + APP			
Communication	Standard: RS485, optional: WIFI / DRM / Bluetooth			
Standard Compliance				
Certification	IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, IEC/EN 61000-6-2/4, EN50549, IEC61727/IEC62116, CEI 0-21/CEI 0-16, C10/C11, VDE 4105, VDE 0124, G99, RD244, UNE217001, UNE217002, NC RfG, TOR Erzeuger, NRS097-2-1, NB/T 32004			
General Data				
Dimension (W*H*D) mm	1000*660*330			
Weight	95KG	98KG	101KG	
Operating Temperature Range	-30°C~+60°C			
Cooling Method	Smart forced air cooling			
Protection Degree	IP66			
Max. Operating Altitude	4000m			
Relative Humidity	0~100%			
Topology	Transformerless			
Night Power Consumption	< 1W			