

SW
5/6/8/10/12/15 kW

Three-phase On-grid Inverter

- Fanless design, low noise
- 20A high input current, matching high power PV modules
- Support AFCI function
- Low start-up voltage, wide MPPT voltage range



Model	SW5000TL-T1-AM22	SW6000TL-T1-AM22	SW8000TL-T1-AM22	SW10KTL-T1-AM22	SW12KTL-T1-AM22	SW15KTL-T1-AM22
DC Input						
Max.Recommended Input Power [W]	7500	9000	12000	15000	18000	22500
Max.Input Voltage [V]	1100					
MPPT Voltage Range [V]	120-1000					
Rated Input Voltage [V]	600					
Start-up Voltage [V]	140					
No.of MPPT Trackers	2					
No.of PV Strings per MPPT	1					
Max.Input Current per MPPT [A]	20					
Max.Short Circuit Current per MPPT [A]	26					
AC Output						
Rated Output Power [W]	5000	6000	8000	10000	12000	15000
Max.Output Appearent Power [VA]	5500	6600	8800	11000	13200	16500
Max.Output Current [A]	8.4	10	13.4	16.7	20	25
Rated Grid Voltage [V]	3L/N/PE,220/380,230 / 400					
Rated Grid Frequency [Hz]	50/60					
Power Factor [cos ϕ]	1(+/-0.8, adjustable)					
Efficiency						
Max.Efficiency	98.60%					
Euro Efficiency	97.80%					
Protection						
DC Switch	Integrated					
Insulation Resistance Detection	Integrated					
Input Reverse Polarity Protection	Integrated					
Anti-island Protection	Integrated					
Residual Current Monitoring	Integrated					
AC Overcurrent Protection	Integrated					
AC Short-circuit Protection	Integrated					
IV-curve scanning	Integrated					
DC Surge Protection	Integrated(Type II)					
AC Surge Protection	Integrated(Type II)					
24-hour load monitoring	Optional					
DC Arc Protection	Optional					
General data						
Dimensions (W*H*D) [mm]	423*383*183					
Weight [Kg]	14					
Display	LED & Bluetooth + APP LCD optional					
Communication	WiFi / RS485 / 4G / DI / DO(Optional)					
Operating Temperature Range [°C]	-25~+60					
Humidity	0~100%					
Operation Altitude [m]	≤ 4000(if>2000 derating)					
Topology	Transformerless					
Cooling Concept	Natural cooling					
Ingress protection	IP66					

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Residential
On-grid Inverters

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More Information

SW

1/1.5/2/2.5/3/3.3kW

Single-phase On-grid Inverter

-  Small and light, easy to install
-  Stylish appearance
-  IP66 rated for outdoor use
-  Flexible optional monitoring modes



Model	SW1000TL-S1-AM11	SW1500TL-S1-AM11	SW2000TL-S1-AM11	SW2500TL-S1-AM11	SW3000TL-S1-AM11	SW3300TL-S1-AM11
DC Input						
Max. Input Power [W]	1500	2250	3000	3750	4500	4950
Max. Input Voltage [V]	550					
MPPT Voltage Range [V]	60~520					
Rated Voltage [V]	360					
Start-up Voltage [V]	70					
No. of MPPT Trackers	1					
No. of PV Strings per MPPT	1					
Max. Input Current per MPPT [A]	16					
Max. Short Circuit Current per MPPT [A]	20					

AC Output						
Rated Output Power [W]	1000	1500	2000	2500	3000	3300
Max. Output Apparent Power [VA]	1100	1650	2200	2750	3300	3630
Max. Output Current [A]	5	7.5	10	12.5	15	16.5
Rated Grid Voltage [V]	L/N/PE, 220/230/240					
Rated Grid Frequency [Hz]	50/60					
Power Factor [cos φ]	1(+/-0.8, adjustable)					

Efficiency		
Max. Efficiency	97.4%	
EU Efficiency	96.9%	

Protection		
DC Switch	Integrated	
Insulation Resistance Monitoring	Integrated	
Input Reverse Polarity Protection	Integrated	
Anti-island Protection	Integrated	
Residual Current Monitoring	Integrated	
AC Overcurrent Protection	Integrated	
AC Short-Circuit Protection	Integrated	
DC Surge Protection	Integrated (Type II)	
AC Surge Protection	Integrated (Type II)	
24-hour load monitoring	Optional	
AFCI	Optional	

General Data		
Dimensions (W*H*D) [mm]	346*350*122	
Weight [kg]	9	
Display	LED+LCD/ Bluetooth+App	
Communication	RS485/WiFi/LAN/4G (Optional)	
Operating Temperature Range [°C]	-30~+60	
Relative Humidity	0~100%	
Operation Altitude [m]	≤4000(if >2000 derating)	
Topology	Transformerless	
Type of Cooling	Natural Cooling	
Ingress Protection	IP66	

SW

3.6/4/4.6/5/6kW

Single-phase On-grid Inverter

-  Aesthetically designed, compact and lightweight appearance
-  Fanless design for low noise
-  2 MPPT trackers for more flexible configuration
-  11x overloading



Model	SW3680TL-S1	SW4000TL-S1	SW4600TL-S1	SW5000TL-S1	SW6000TL-S1
DC Input					
Max. Input Power [W]	5520	6000	6900	7500	9000
Max. Input Voltage [V]	550				
MPPT Voltage Range [V]	60~520				
Rated Voltage [V]	360				
Start-up Voltage [V]	70				
No. of MPPT Trackers	2				
No. of PV Strings per MPPT	1				
Max. Input Current per MPPT [A]	16				
Max. Short Circuit Current per MPPT [A]	20				

AC Output					
Rated Output Power [W]	3680	4000	4600	5000	6000
Max. Output Apparent Power [VA]	4048	4400	5060	5500	6600
Max. Output Current [A]	18.4	20	23	25	30
Rated Grid Voltage [V]	L/N/PE, 220/230/240				
Rated Grid Frequency [Hz]	50/60				
Power Factor [cos φ]	1(+/-0.8, adjustable)				

Efficiency		
Max. Efficiency	97.9%	
EU Efficiency	97.2%	

Protection		
DC Switch	Integrated	
Insulation Resistance Monitoring	Integrated	
Input Reverse Polarity Protection	Integrated	
Anti-island Protection	Integrated	
Residual Current Monitoring	Integrated	
AC Overcurrent Protection	Integrated	
AC Short-Circuit Protection	Integrated	
DC Surge Protection	Integrated (Type II)	
AC Surge Protection	Integrated (Type II)	
IV Curve scanning	Integrated	
24-hour load monitoring	Optional	
AFCI	Optional	

General Data		
Dimensions (W*H*D) [mm]	420*370*133	
Weight [kg]	11	
Display	LED+LCD/ Bluetooth+App	
Communication	RS485/WiFi/LAN/4G (Optional)	
Operating Temperature Range [°C]	-30~+60	
Relative Humidity	0~100%	
Operation Altitude [m]	≤4000(if >2000 derating)	
Topology	Transformerless	
Type of Cooling	Natural cooling	
Ingress Protection	IP66	

SW

7/8/9/10kW

Single-phase On-grid Inverter

-  Max. efficiency up to 98%
-  DC/AC surge protection: Type II
-  Wide voltage range and low startup voltage
-  150% oversizing



Model	SW7000TL-S1-CM33	SW8000TL-S1-CM33	SW9000TL-S1-CM33	SW010KTL-S1-CM33
DC Input				
Max. Input Power [W]	10500	12000	13500	15000
Max. Input Voltage [V]	550			
MPPT Voltage Range [V]	60~520			
Rated Voltage [V]	360			
Start-up Voltage [V]	70			
No. of MPPT Trackers	3			
No. of PV Strings per MPPT	1			
Max. Input Current per MPPT [A]	16			
Max. Short Circuit Current per MPPT [A]	20			

AC Output				
Rated Output Power [W]	7000	8000	9000	10000
Max. Output Apparent Power [VA]	7000	8000	9000	10000
Max. Output Current [A]	31.8	36.4	40.9	45.5
Rated Grid Voltage [V]	L/N/PE, 220/230/240			
Rated Grid Frequency [Hz]	50/60			
Power Factor [cos φ]	1(+/-0.8, adjustable)			

Efficiency		
Max. Efficiency	98.0%	
EU Efficiency	97.5%	

Protection		
DC Switch	Integrated	
Insulation Resistance Monitoring	Integrated	
Input Reverse Polarity Protection	Integrated	
Anti-island Protection	Integrated	
Residual Current Monitoring	Integrated	
AC Overcurrent Protection	Integrated	
AC Short-Circuit Protection	Integrated	
DC Surge Protection	Integrated (Type II)	
AC Surge Protection	Integrated (Type II)	
IV Curve scanning	Integrated	
24-hour load monitoring	Optional	
AFCI	Optional	

General Data		
Dimensions (W*H*D) [mm]	446*400*161	
Weight [kg]	17	
Display	LED+LCD/ Bluetooth+App	
Communication	RS485/WiFi/LAN/4G (Optional)	
Operating Temperature Range [°C]	-30~+60	
Relative Humidity	0~100%	
Operation Altitude [m]	≤4000(if >2000 derating)	
Topology	Transformerless	
Type of Cooling	Natural cooling	
Ingress Protection	IP66	