

SWH 3.6/4/4.6/5/5.5/6 kW

Single-phase Hybrid Inverter (Low Voltage)



MODEL

SWH3600L-S1-SR		SWH4000L-S1-SR
SWH4600L-S1-SR		SWH5000L-S1-SR
SWH5500L-S1-SR		SWH6000L-S1-SR



Efficiency up to 16A+16A PV input current



Outputs high-quality pure sine wave AC power



With IP65 protection degree



Up to 100A charging current



Time-slot function to save cost with peak-valley

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Off-grid Output						
Rated Output Power [W]	3600	4000	4600	5500	5500	6000
Max. Peak Power [VA]	7200	8000	9200	11000	11000	12000
Rated Output Voltage [Vac]	220/230/240, single phase					
Load Capacity of Motors	3HP			4HP		
Output Frequency Range [Hz]	50 ± 0.3/60 ± 0.3					
Switching Time	10ms(typical value)					
On-grid Output						
Rated Output Power [W]	3600	4000	4600	5500	5500	6000
Max. Apparent Power [VA]	7200	8000	9200	11000	11000	12000
Rated Output Current [A]	15.7	17.4	20	24	24	26
Max. Output Current [A]	17.2	19.1	22	26.4	26.4	28.6
THDI	< 3%					
Power Factor	0.8 leading to 0.8 lagging					
Rated Voltage	220/230/240, single-phase					
Frequency [Hz]	50/60					
Battery						
Battery Type	Lead-acid / Li-ion / User-defined					
Rated Battery Voltage	48V (minimum start-up voltage 44V)					
Battery Voltage Range [Vdc]	40-60					
Max. PV Charging Current [A]	100					
Max. Utility Charging Current [A]	60					
Max. Generator Charging Current [A]	60					
PV Input						
Num. of MPPT	2					
Max. Input Power [W]	3000+3000	3000+3000	3500+3500	4000+4000	4000+4000	4500+4500
Max. Input Current [A]	16+16					
Max. Short-circuit Current [A]	27+27					
Max. Open-circuit Voltage [Vdc]	500+500					
Start-up Voltage [Vdc]	120					
MPPT Operating Voltage Range [Vdc]	120-450					
Utility/Generator Input						
Input Voltage Range [Vac]	90-280					
Input Frequency Range [Hz]	50/60					
Bypass Overload Current [A]	40					
Efficiency						
MPPT Tracking Efficiency	99.9%					
Max. Efficiency	97.5%					
European Efficiency	97.0%					
General						
Num. of Parallel	1-6 units					
Dimensions (W*H*D) [mm]	345*556*182					
Weight [Kg]	20					
Protection Degree	IP65					
Operating Temperature Range	-25-60° C (>45° C derating)					
Humidity Range	0%-100%					
Noise [dB]	<60					
Cooling Method	Heatsink & Intelligent air cooling					
Warranty	5 years					
Communication						
Internal Interface	RS485 / CAN / USB / Dry contact					
External Module (optional)	Wi-Fi / GPRS					
Certification						
On-grid Certification	EN50549-1, G99, NRS-097, VDE-ARN-4105, CEI021, UNE217002, PGC 2016					
Safety/EMC	IEC62109-1, IEC62109-2, EN61000-6-1, EN61000-6-3, FCC15 classB					
RoHS	Yes					
Protection						
Protection	PV Reverse Protection / Anti-Islanding Protection / Residual-Current Monitoring / Insulation Resistance Monitoring / Output Short-Circuit Protection / Output Over-Current Protection / Over-Voltage Protection / Surge Protection					