

Technical Specifications

Model	SUN-7.6K-SG01LP1 -EU	SUN-8K-SG01LP1 -EU
Battery Input Data		
Battery Type	Lead-acid or Li-Ion	
Battery Voltage Range (V)	40~60V	
Max.Charging Current (A)	190A	190A
Max.Discharging Current (A)	190A	190A
Charging Curve	3 Stages/Equalization	
External Temperature Sensor	Optional	
Charging Strategy for Li-Ion Battery	Self-adaption to BMS	
PV String Input Data		
Max.DC Input Power (W)	9880W	10400W
PV Input Voltage (V)	370V(100V~500V)	
MPPT Range (V)	125V-425V	
Start-up Voltage (V)	150V	
PV Input Current (A)	18A+18A	18A+18A
No.of MPPT Trackers	2	
No.of Strings Per MPPT Tracker	2+2	2+2
AC Output Data		
Rated AC Output and UPS Power (W)	7600W	8000W
Max AC Output Power (W)	8360W	8800W
Peak Power(off grid)	2 times of rated power, 10 S	
AC Output Rated Current(A)	31.7A/33A	33.4A/35A
Max.AC Current(A)	36.4A/38A	38.3A/40A
Max Continuous AC Passthrough(A)	50A	50A
Output Frequency and Voltage	50/60Hz; 120/240Vac(split phase), 208Vac(2/3 phase),230Vac(single phase)	
Grid Type	Split phase \ 2/3 phase \ Single Phase	
Current Harmonic Distortion	THD<3%(Linear load<1.5%)	
Efficiency		
Max.Efficiency	97.60%	
Euro Efficiency	97.00%	
MPPT Efficiency	99.90%	
Protection		
PV Arc Fault Detection	Integrated (Except European Type)	
PV Input Lightning Protection	Integrated	
Anti-islanding Protection	Integrated	
PV String Input Reverse Polarity Protection	Integrated	
Insulation Resistor Detection	Integrated	
Residual Current Monitoring Unit	Integrated	
Output Over Current Protection	Integrated	
Output Shorted Protection	Integrated	
Output Over Voltage Protection	Integrated	
Certifications and Standards		
Grid Regulation	UL1741,IEEE1547,RULE21,VDE 0126,AS4777,NRS2017,G98,G99,IEC61683,IEC62116,IEC61727	
Safety Regulation	IEC62109-1, IEC62109-2	
EMC	EN61000-6-1, EN61000-6-3, FCC 15 class B	
General Data		
Operating Temperature Range (°C)	-25~60°C, >45°C Derating	
Cooling	Fan	
Noise (dB)	<30	
Communication with BMS	RS485; CAN	
Weight (kg)	32	
Size (Length*Width*Height mm)	670×420×233mm	
Protection Degree	IP65	
Installation Style	Wall-mounted	
Warranty	5 years	