

■ SUN-5K-SG01LP1-US, SUN-6K-SG01LP1-US, SUN-7.6K-SG01LP1-US/EU, SUN-8K-SG01LP1-US/EU

Model	SUN-5K-SG01LP1-US	SUN-6K-SG01LP1-US	SUN-7.6K-SG01LP1-US/EU	SUN-8K-SG01LP1-US/EU
Battery Input Data				
Battery Type	Lead-acid or Lithium-ion			
Battery Voltage Range (V)	40~60V			
Max. Charging Current (A)	120A	135A	190A	190A
Max. Discharging Current (A)	120A	135A	190A	190A
Charging Curve	3 Stages/Equalisation			
External Temperature Sensor	Optional			
Charging Strategy for Li-Ion Battery	Self-Adaptation to BMS			
PV String Input Data				
Max. DC Input Power (W)	6500W	7800W	9880W	10400W
PV Input Voltage (V)	370V (100V~500V)			
MPPT Range (V)	125~425V			
Start-up Voltage (V)	150V			
PV Input Current (A)	11A+11A	18A+9A	18A+18A	18A+18A
No. of MPPT Trackers	2			
No. of Strings Per MPPT Tracker	1+1	2+1	2+2	2+2
AC Output Data				
Rated AC Output and UPS Power (W)	5000W	6000W	7600W	8000W
Max. AC Power (W)	5500W	6600W	8360W	8800W
Peak Power (off-grid)	2 times of rated power, 10 S			
AC Output Rated Current (A)	20.8A	25A	31.7A/33A	33.4A/35A
Max AC Output Current (A)	24A	28.8A	36.4A/38A	38.3A/40A
Max Continuous AC Passthrough (A)	48A	80A	90A	90A
Output Frequency and Voltage	50/60Hz; 120/240Vac(split phase), 208Vac(2/3), 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%			
MPPT Efficiency	96.50%			
Euro 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	UL 1741, IEEE1547, RULE21, VDE0126, 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			