Hybrid Inverter

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



DC couple and AC couple to retrofit existing solar system

Support storing energy from diesel generator



Model	SUN-5K-SG01LP1 -US	SUN-6K-SG01LP1 -US	SUN-7.6K-SG01I -US/EU		SUN-8K-SG01LP1 -US/EU		
Battery Input Data							
Battery Type	Lead-acid or Lithium-ion						
Battery Voltage Range (V)	40~60						
Max. Charging Current (A)	120	135	190	190	190		
Max. Discharging Current (A)	120	135	190	190	190		
Charging Curve	3 Stages / Equalization						
External Temperature Sensor	Yes						
Charging Strategy for Li-Ion Battery		Self-adap	tion to BMS				
PV String Input Data							
Max. DC Input Power (W)	6500	7800	9880	1040	10400		
Rated PV Input Voltage (V)	370 (125~500)						
Start-up Voltage (V)	125						
MPPT Range (V)	150-425						
Full Load DC Voltage Range (V)	300-425		200-425				
PV Input Current (A)	13+13	26+13	26+26	26+2	26+26		
Max. PV ISC (A)	17+17	34+17	34+34		34+34		
Number of MPPT / Strings per MPPT	2/1+1	2/2+1	2/2+2		2/2+2		
AC Output Data				7.2			
Rated AC Output and UPS Power (W)	5000	6000	7600	800	0		
Max. AC Output Power (W)	5500	6600	8360	880			
Peak Power (off grid)	3300		red power, 10 S	000			
AC Output Rated Current (A)	20.8 / 24	25 / 28.8	31.7 / 36.5 34.	5 33.3 / 38.5	36.4		
Max. AC Current (A)	22.9 / 26.4	27.5 / 31.7	34.8 / 40.2 38		40		
Max. Continuous AC Passthrough (A)		40	34.07 40.2	50.77 42.5	70		
Power Factor			o 0.8 lagging	30			
Output Frequency and Voltage	0.8 leading to 0.8 lagging 50 / 60Hz; 120 / 240Vac (split phase), 208Vac (2 / 3 phase), 220/230Vac (single phase)						
Grid Type	Split phase; 2 / 3 phase; Single Phase						
Current Harmonic Distortion	THD<3% (Linear load<1.5%)						
Efficiency		TTID<370 (LIII	ear load< 1.5%)				
Max. Efficiency		0.7	C00/				
	97.60%						
Euro Efficiency MPPT Efficiency	97.00%						
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Protection		loto	avata d				
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						
Surge protection		DC Type II	/ AC Type II				
Certifications and Standards							
Grid Regulation	ABNT NBR 16149,ABNT NBR 16150,ABNT NBR 62116, AS4777.2, VDE 0126-1-1, NRS 097-2-1, CEC Guideline, UL1741, CSA C22.2 NO.107.1-16, UL 1741 SA, CPUC RULE 21, UL1699B, UL 1741 CRD						
Safety EMC / Standard	IEC62109-1/-2, IEC61000)-6-1, IEC61000-6-3, IEC610	00-3-11, IEC61000-3-1	2, IEC61000-2-2, 47 C	FR Part 15		
General Data							
Operating Temperature Range (°C)	-25~60°C, >45°C Derating						
Cooling	Smart cooling						
Noise (dB)	<30 dB						
Communication with BMS	RS485; CAN						
Weight (kg)	32						
Size (mm)	420Wx670Hx233D						
Protection Degree	IP65						
Installation Style		Wall-mounted					
Warranty	5 years						
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