

Hybrid Inverter

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

SUN-7.6/8K-SG01LP1-EU



Colorful touch LCD, IP65 protection degree



AC couple to retrofit existing solar system



Max. 16 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel



Max. charging/discharging current of 190A



6 time periods for battery charging/discharging



Support storing energy from diesel generator

Deye

Stock Code: 605117.SH

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)	40-60						
Max. Charging Current (A)	120	135	190	190			
Max. Discharging Current (A)	120	135	190	190			
External Temperature Sensor	Yes						
Charging Curve	3 Stages / Equalization						
Charging Strategy for Li-Ion Battery	Self-adaption to BMS						
PV String Input Data							
Max. DC Input Power (W)	6500	7800	9880	10400			
Rated PV Input Voltage (V)	370 (125-500)						
Start-up Voltage (V)	125						
MPPT Voltage Range (V)	150-425						
Full Load DC Voltage Range (V)	300-425	200-425					
PV Input Current (A)	13+13	26+13	26+26				
Max. PV I _{SC} (A)	22+22	44+22	44+44				
No.of MPP Trackers	2						
No.of Strings per MPP Tracker	1+1	2+1	2+2				
AC Output Data							
Rated AC Output Active Power (W)	5000	6000	7600	8000			
Max AC Output Active Power (W)	5500	6600	8360	8800			
AC Output Rated Current (A)	20.8/24	25/28.8	31.7/36.5	34.5/33	33.3/38.5	36.4/34.8	
Max. AC Output Current (A)	22.9/26.4	27.5/31.7	34.8/40.2	38/36.3	36.7/42.3	40/38.3	
Max. Continuous AC Passthrough (A)	50						
Peak Power (off grid)	2 time of rated power, 10 S						
Power Factor Adjustment Range	0.8 leading to 0.8 lagging						
Power Factor	1						
Output Frequency and Voltage	50 / 60Hz; L1/L2/N(PE) 120/240Vac (split phase), 208Vac (2/3 phase), L/N/PE 220/230Vac (single phase)						
Grid Type	Split Phase; 2/3 phase; Single Phase						
Efficiency							
Max. Efficiency	97.60%						
Euro Efficiency	97.00%						
MPPT Efficiency	99.90%						
Protection							
Integrated	Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge Protection						
Over Voltage Category	DC Type II/AC Type III						
Grid Regulation	EN 50549, UNE 217002, NRS 097, IEEE 1547.1, SRD V2.0						
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2, UL 1741						
Operating Temperature Range (							
Warranty							