

Hybrid Inverter

SUN-7.6/8K-SG05LP1-AU



Colorful touch LCD, IP65 protection degree



DC couple and AC couple to retrofit existing solar system

16

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

190

Max. charging/discharging current of 190A

6

6 time periods for battery charging/discharging



Support storing energy from diesel generator

Deye

Stock Code: 605117.SH

Model	SUN-7.6K-SG05LP1-AU		SUN-8K-SG05LP1-AU
Battery Input Data			
Battery Type	Lead-acid or Li-Ion		
Battery Voltage Range (V)	40~60		
Max. Charging Current (A)	190	190	
Max. Discharging Current (A)	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. PV Input Power (W)	11400	12000	
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)	200-425		
PV Input Current (A)	26+26		
Max. PV ISC (A)	39+39		
Number of MPPT / Strings per MPPT	2/1+1		
AC Output Data			
Rated AC Output and UPS Power (VA)	7600	8000	
Max. AC Output Power (W)	7600	8000	
AC Output Rated Current (A)	33/31.7	34.8/33.3	
Max. AC Current (A)	33/31.7	34.8/33.3	
Max. Continuous AC Passthrough (A)	50		
Peak Power (off grid)	2 time of rated power, 10 S		
Power Factor	0.8 leading to 0.8 lagging		
Output Frequency and Voltage	50Hz; L/N/PE	230V/ 195.5V-253V	240V/204V-264V
Grid Type	Single Phase		
Total harmonic Distortion(THD)	< 3% (of nominal power)		
DC current injection	<0.5% In		
Efficiency			
Max. Efficiency	97.60%		
Euro Efficiency	97.00%		
MPPT Efficiency	99.90%		
Protection			
Integrated	PV Input Lightning Protection, 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		
Output Over Voltage Protection	DC Type II/AC Type III		
Certifications and Standards			
Grid Regulation	AS/NZS 4777.2		
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		
General Data			
Operating Temperature Range (°C)	-40~60°C, >45°C derating		
Cooling	Natural cooling		
Noise (dB)	<30 dB		
Communication with BMS	RS485; CAN		
Weight (kg)	24		
Size (mm)	330W x 580H x232D		
Protection Degree	IP65		
Installation Style	Wall-mounted		
Warranty	5 years		