

# Hybrid Inverter

SUN- 7.6/8 K-SG05LP1-AU



Colorful touch LCD, IP65 protection degree



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
<b>Battery Input Data</b>		
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	
<b>PV String Input Data</b>		
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 PV Voltage Range (V)	200-425	
PV Input Current (A)	26+26	
Max. PV I <sub>SC</sub> (A)	39+39	
Number of MPPT / Strings per MPPT	2/2+2	
<b>AC Output Data</b>		
Rated AC Output and UPS Power (VA)	7600	8000
Max. AC Output Power (W)	7600	8000
AC Output Rated Current (A)	33	34.8
Max. AC Output Current (A)	33	34.8
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 230/400, 240/415Vac	
Grid Connection Form	L+N+PE	
Total Harmonics Current Distortion (THDi)	< 3% ( of nominal power )	
DC current injection	<0.5% I <sub>n</sub>	
<b>Efficiency</b>		
Max. Efficiency	97.60%	
Euro Efficiency	96.50%	
MPPT Efficiency	99.90%	
<b>Protection</b>		
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	
<b>Certifications and Standards</b>		
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	
<b>General Data</b>		
Operating Temperature Range ( )	-40 to +60 , >45 derating	
Cooling	Natural cooling	
Noise (dB)	<30 dB	
Communication with BMS	RS485; CAN	
Weight (kg)	24.9	
Size (mm)	330W x 580H x232D ( Excluding connectors and brackets)	
Protection Degree	IP65	
Installation Style	Wall-mounted	
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy	