

# Hybrid Inverter

SUN- 3 / 3.6 / 5 / 6 K-SG04LP1-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

140

Max. charging/discharging current of 140A

6

6 time periods for battery charging/discharging



Support storing energy from diesel generator

**Deye**

Stock Code: 605117.SH

Model	SUN-3K -SG04LP1-24-AU	SUN-3K -SG04LP1-AU	SUN-5K -SG04LP1-AU	SUN-6K -SG04LP1-AU
<b>Battery Input Data</b>				
Battery Type	Lead-acid or Li-Ion			
Battery Voltage Range (V)	20-30	40-60	40-60	40-60
Max. Charging Current (A)	140	70	120	135
Max. Discharging Current (A)	140	70	120	135
Number of battery input	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)	4500	4500	7500	9000
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			
PV Input Current (A)	13		13+13	
Max. PV I <sub>SC</sub> (A)	19.5		19.5+19.5	
Number of MPPT / Strings per MPPT	1/1		2/1+1	
<b>AC Output Data</b>				
Rated AC Output and UPS Power (VA)	3000		5000	6000
Max. AC Output Power (W)	3000		5000	6000
AC Output Rated Current (A)	13		21.7	26.1
Max. AC Output Current (A)	13		21.7	26.1
Max. Continuous AC Passthrough (A)	35			40
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/45Hz-55Hz; 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 (°C)	-40 to +60°C, >45°C derating			
Cooling	Free cooling		Smart cooling	
Noise (dB)	<30 dB			
Communication with BMS	RS485; CAN			
Weight (kg)	14		15	
Size (mm)	333W x 433H x238D (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			