

# Hybrid Inverter

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



Colorful touch LCD, IP65 protection degree

6

6 time periods for battery charging/discharging

120

Max. charging/discharging current of 135A

16

Frequency droop control, Max.16pcs parallel



DC couple and AC couple to retrofit existing solar system



Support storing energy from diesel generator

**Deye**

*Clean Power For You*

Model	SUN-3K-SG04LP1-24-EU	SUN-3K-SG04LP1-EU	SUN-3.6K-SG04LP1-EU	SUN-5K-SG04LP1-EU	SUN-6K-SG04LP1-EU
<b>Battery Input Data</b>					
Battery Type	Lead-acid or Lithium-ion				
Battery Voltage Range (V)	20~30	40~60			
Max. Charging Current (A)	140	70	90	120	135
Max. Discharging Current (A)	140	70	90	120	135
Charging Curve	3 Stages / Equalization				
External Temperature Sensor	Yes				
Charging Strategy for Li-Ion Battery	Self-adaption to BMS				
<b>PV String Input Data</b>					
Max. DC Input Power (W)	3900		4680	6500	7800
Rated PV Input Voltage (V)	370				
Max. PV Input Voltage (V)	500				
Min. PV Input Voltage (V)	125				
Start-up Voltage (V)	125				
MPPT Range (V)	150-425				
Full Load DC Voltage Range (V)	250-425				
PV Input Current (A)	13		13+13		
Max. PV ISC (A)	17		17+17		
Number of MPPT / Strings per MPPT	1/1		2/1+1		
<b>AC Output Data</b>					
Rated AC Output and UPS Power (W)	3000		3600	5000	6000
Max. AC Output Power (W)	3300		3960	5500	6600
Peak Power (off grid)	2 times of rated power, 10 S				
AC Output Rated Current (A)	13.6/13		16.4/15.7	22.7/21.7	21.3/26.1
Max. AC Current (A)	15/14.3		18/17.2	25/23.9	30/28.7
Max. Continuous AC Passthrough (A)	35				40
Power Factor	0.8 leading to 0.8 lagging				
Output Frequency and Voltage	50/60Hz; 220/230Vac (single phase)				
Grid Type	Single Phase				
Current Harmonic Distortion	THD<3% (Linear load<1.5%)				
<b>Efficiency</b>					
Max. Efficiency	97.60%				
Euro Efficiency	96.50%				
MPPT Efficiency	99.90%				
<b>Protection</b>					
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				
<b>Certifications and Standards</b>					
Grid Connection Standard	EN50549-1, VDE0126, IEC61727, VDEN4105, G99, CEI0-21, NRS097, NBR16149/16150, RD1699				
Safety EMC / Standard	IEC62109-1/-2				
<b>General Data</b>					
Operating Temperature Range (°C)	-25~60°C, >45°C Derating				
Cooling	Natural cooling				
Noise (dB)	<30 dB				
Communication with BMS	RS485; CAN				
Weight (kg)	14				
Size (mm)	365.5Wx470.5Hx261D				
Protection Degree	IP65				
Installation Style	Wall-mounted				
Warranty	5 years				