

Hybrid Inverter

SUN-3/3.6K-SG04LP1



Colorful touch LCD, IP65 protection degree

6

6 time periods for battery charging/discharging

120

Max. charging/discharging current of 120A

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	SUN-3K-SG04LP1	SUN-3.6K-SG04LP1
Battery Input Data			
Battery Type	Lead-acid or Lithium-ion		
Battery Voltage Range (V)	20~30V	40~60V	40~60V
Max. Charging Current (A)	140A	70A	85A
Max. Discharging Current (A)	140A	70A	85A
Charging Curve	3 Stages / Equalization		
External Temperature Sensor	Optional		
Charging Strategy for Li-Ion Battery	Self-adaption to BMS		
PV String Input Data			
Max. DC Input Power (W)	3900W	3900W	4680W
PV Input Voltage (V)	370V (100V~500V)		
MPPT Range (V)	125~425V		
Full Load DC Voltage Range	240~425V		
Start-up Voltage (V)	150V		
PV Input Current (A)	13A	13A	13A+13A
No.of MPPT Trackers	1	1	2
No.of Strings Per MPPT Tracker	1	1	1+1
AC Output Data			
Rated AC Output and UPS Power (W)	3000W	3000W	3600W
Max. AC Output Power (W)	3300W	3300W	3960W
Peak Power (off grid)	2 times of rated power, 10 S		
AC Output Rated Current (A)	13A	13A	16A
Max. AC Current (A)	15A	15A	18A
Max. Continuous AC Passthrough (A)	35A		
Power Factor	0.8 leading to 0.8 lagging		
Output Frequency and Voltage	50/60Hz; 220/230 / 240Vac (single phase)		
Grid Type	Single Phase		
Current Harmonic Distortion	THD<3% (Linear load<1.5%)		
Efficiency			
Max. Efficiency	97.60%		
Euro Efficiency	96.50%		
MPPT Efficiency	99.90%		
Protection			
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		
Certifications and Standards			
Grid Regulation	VDE 0126, AS4777, NRS2017, G98, G99, IEC61683, IEC62116, IEC61727, RD1699: 2011, XP C15-712-3, CEI 0-21		
Safety Regulation	IEC62109-1, IEC62109-2		
EMC	EN61000-6-1, EN61000-6-3		
General Data			
Operating Temperature Range (°C)	-25~60°C, >45°C Derating		
Cooling	Smart cooling		
Noise (dB)	<30 dB		
Communication with BMS	RS485; CAN		
Weight (kg)	14		
Size (mm)	352W×450H×206D		
Protection Degree	IP65		
Installation Style	Wall-mounted		
Warranty	5 years		