

Hybrid Inverter

SUN-3.6/5K-SG01/03LP1-EU



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-3.6K-SG01/03LP1-EU	SUN-5K-SG01/03LP1-EU
Battery Input Data		
Battery Type	Lead-acid or Lithium-ion	
Battery Voltage Range (V)	40~60	
Max. Charging Current (A)	90	120
Max. Discharging Current (A)	90	120
Charging Curve	3 Stages / Equalization	
External Temperature Sensor	Yes	
Charging Strategy for Li-Ion Battery	Self-adaption to BMS	
PV String Input Data		
Max. DC Input Power (W)	4680	6500
PV Input Voltage (V)	370 (100~500)	
MPPT Range (V)	125~425	
Full Load DC Voltage Range (V)	240~425	
Start-up Voltage (V)	150	
PV Input Current (A)	13+13	
Max. PV ISC (A)	16.5+16.5	
No.of MPPT Trackers	2	
No.of Strings Per MPPT Tracker	1+1	
AC Output Data		
Rated AC Output and UPS Power (W)	3600	5000
Max. AC Output Power (W)	3960	5500
Peak Power (off grid)	2 times of rated power, 10 S	
AC Output Rated Current (A)	15.7	21.7
Max. AC Current (A)	18	25
Max. Continuous AC Passthrough (A)	35	
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 Connection Standard	EN50549-1, CEI 0-21, IEC61727, IEC62116, IEC60068, IEC61683, ABNT NBR 16149, ABNT NBR 16150, AS4777.2, VDE 4105, XP C15-712-3, RD1699, UNE 206006 IN, UNE 206007-1 IN	
Safety EMC / Standard	IEC62040-1, IEC62109-1/-2, IEC61000-6-1, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, IEC61000-4-16, IEC61000-4-18, IEC61000-4-29	
General Data		
Operating Temperature Range (°C)	-25~60°C, >45°C Derating	
Cooling	Natural cooling	
Noise (dB)	<30 dB	
Communication with BMS	RS485; CAN	
Weight (kg)	20.5	
Size (mm)	330W×580H×232D	
Protection Degree	IP65	
Installation Style	Wall-mounted	
Warranty	5 years	