

Hybrid Inverter

SUN-3.6/5K-SG03LP1-BE



Colorful touch LCD, IP65 protection degree



AC couple to retrofit existing solar system



Max. 16 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel



Max. charging/discharging current of 135A



6 time periods for battery charging/discharging



Support storing energy from diesel generator

Deye

Stock Code: 605117.SH

Model	SUN-3.6K-SG03LP1-BE	SUN-5K-SG03LP1-BE
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
External Temperature Sensor	Yes	
Charging Curve	3 Stages / Equalization	
Charging Strategy for Li-Ion Battery	Self-adaption to BMS	
PV String Input Data		
Max. DC Input Power (W)	4680	6500
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	
Max. PV I _{SC} (A)	17+17	
No.of MPP Trackers	2	
No.of Strings per MPP Tracker	1+1	
AC Output Data		
Rated AC Output Active Power (W)	3600	5000
Max. AC Output Apparent Power (VA)	3600	5000
AC Output Rated Current (A)	15.7	21.7
Max. AC Output Current (A)	15.7	21.7
Max. Continuous AC Passthrough (A)	35	
Peak Power (off grid)	2 time of rated power, 10 S	
Power Factor Adjustment Range	0.8 leading to 0.8 lagging	
Rated Input/Output Voltage/Range(V)	220/230 0.85Un-1.1Un	
Rated Input/Output Grid Frequency/Range	50Hz/45Hz-55Hz 60Hz/55Hz-65Hz	
Grid Connection Form	L+N+PE	
Total Harmonics Current Distortion (THDi)	<3% (of nominal power)	
DC Current Injection	<0.5% I _n	
Efficiency		
Max. Efficiency	97.60%	
Euro Efficiency	96.50%	
MPPT Efficiency	99.90%	
Protection		
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	
Certifications and Standards		
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105	
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2	
General Data		
Operating Temperature Range ()	-40 to +60°C, >45°C Derating	
Cooling	Smart Cooling	
Noise (dB)	≤30 dB	
Communication with BMS	RS485; CAN	
Weight (kg)	20.5	
Cabinet Size (WxHxD mm)	330×580×232 (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	