

Hybrid Inverter

SUN-3.6/5/6K-SG03LP1-EU



-  Colorful touch LCD, IP65 protection degree
-  DC couple and 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

Technical Data

Model	SUN-3.6K-SG03LP1-EU		SUN-5K-SG03LP1-EU		SUN-6K-SG03LP1-EU	
Battery Input Data						
Battery Type	Lead-acid or Li-Ion					
Battery Voltage Range (V)	40~60					
Max. Charging Current (A)	90	120		135		
Max. Discharging Current (A)	90	120		135		
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		7800		
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					
AC Output Data						
Rated AC Output and UPS Power (W)	3600	5000		6000		
Max. AC Output Power (W)	3690	5500		6600		
AC Output Rated Current (A)	16.4/15.7	22.7/21.7		27.3/26.1		
Max. AC Current (A)	18/17.2	25/23.9		30/28.7		
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	50/60Hz; L/N/PE 220/230Vac (single phase)					
Grid Type	Single Phase					
Total Harmonic Distortion (THD)	<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	PV Input Lightning Protection, 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					
Output Over Voltage Protection	DC Type II/AC Type III					
Certifications and Standards						
Grid Regulation	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150					
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2					
General Data						
Operating Temperature Range ()	-40~60℃, >45℃ derating					
Cooling	Natural cooling					
Noise (dB)	<30 dB					
Communication with BMS	RS485; CAN					
Weight (kg)	20.5					
Size (mm)	330W x 580H x232D					
Protection Degree	IP65					
Installation Style	Wall-mounted					
Warranty	5 years					