







Hybrid Inverter

SUN-3.6/5/8K-SG03LP1-EU



-  Colorful touch LCD, IP65 protection degree
-  6 time periods for battery charging/discharging
-  190 Max. charging/discharging current of 190A

-  16 Frequency droop control, Max.16pcs parallel
-  DC couple and AC couple to retrofit existing solar system
-  Support storing energy from diesel generator

Model	SUN-3.6K-SG03LP1-EU	SUN-5K-SG03LP1-EU	SUN-8K-SG03LP1-EU
Battery Input Data			
Battery Type	Lead-acid or Lithium-ion		
Battery Voltage Range (V)	40~60		
Max. Charging Current (A)	90	120	190
Max. Discharging Current (A)	90	120	190
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	10400
Rated PV Input Voltage (V)	370 (125~500)		
Start-up Voltage (V)	125		
MPPT Range (V)	150~425		
Full Load DC Voltage Range (V)	300~425		200~425
PV Input Current (A)	13+13		26+26
Max. PV ISC (A)	17+17		34+34
Number of MPPT / Strings per MPPT	2/1+1		2/2+2
AC Output Data			
Rated AC Output and UPS Power (W)	3600	5000	8000
Max. AC Output Power (W)	3960	5500	8800
Peak Power (off grid)	2 times of rated power, 10 S		
AC Output Rated Current (A)	16.4	22.7	36.4
Max. AC Current (A)	18	25	40
Max. Continuous AC Passthrough (A)	35		50
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		
Current Harmonic Distortion	THD<3% (Linear load<1.5%)		
Efficiency			
Max. Efficiency	97.60%		
Euro Efficiency(PV-AC)	96.50%		
Euro Efficiency(battery-AC)	95.70%		
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	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11		
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		
General Data			
Operating Temperature Range (°C)	-45~60°C, >45°C Derating		
Cooling	Natural cooling		
Noise (dB)	<30 dB		
Communication with BMS	RS485; CAN		
Weight (kg)	20.5		
Size (mm)	330Wx580Hx232D		
Protection Degree	IP65		
Installation Style	Wall-mounted		
Warranty	5 years		