

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.3pcs parallel



DC couple and AC couple to
retrofit existing solar system



Support storing energy from
diesel generator

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)	40~60V			
Max. Charging Current (A)	90A		120A	
Max. Discharging Current (A)	90A		120A	
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)	4680W		6500W	
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)	11A+11A			
No.of MPPT Trackers	2			
No.of Strings Per MPPT Tracker	1+1			
AC Output Data				
Rated AC Output and UPS Power (W)	3600W		5000W	
Max. AC Output Power (W)	3960W		5500W	
Peak Power (off grid)	2 times of rated power, 10 S			
AC Output Rated Current (A)	15.7A		21.7A	
Max. AC Current (A)	18A		25A	
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)	20.5			
Size (mm)	330W×580H×232D			
Protection Degree	IP65			
Installation Style	Wall-mounted			
Warranty	5 years			