

Three Phase Hybrid Inverter

SUN- 6 / 8 / 10 / 12 / 15 K-SG01HP3-EU



- 100

100% unbalanced output, each phase; Max. output up to **50%** rated power
- DC couple and AC couple to retrofit existing solar system
- 16

Max. 16pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- 37

Max. charging/discharging current of 37A
- H

High voltage battery, higher efficiency
- 6

6 time periods for battery charging/discharging
- Support storing energy from diesel generator

Technical Data

Model	SUN-6K -SG01HP3-EU	SUN-8K -SG01HP3-EU	SUN-10K -SG01HP3-EU	SUN-12K -SG01HP3-EU	SUN-15K -SG01HP3-EU
Battery Input Data					
Battery Type	Lead-acid or Li-Ion				
Battery Voltage Range (V)	96~600				
Max. Charging Current (A)	37				
Max. Discharging Current (A)	37				
Number of battery input	1				
Charging Curve	3 Stages / Equalization				
Charging Strategy for Li-Ion Battery	Self-adaption to BMS				
PV String Input Data					
Max. DC Input Power (W)	7800	10400	13000	15600	19500
Max. DC Input Voltage (V)	1000				
Start-up Voltage (V)	160				
MPPT Range (V)	200-850				
Full Load DC Voltage Range (V)	300-850				
Rated DC Input Voltage (V)	150				
PV Input Current (A)	36+18				
Max. PV ISC (A)	50+25				
Number of MPPT / Strings per MPPT	2/2+1				
AC Output Data					
Rated AC Output and UPS Power (W)	6000	8000	10000	12000	15000
Max. AC Output Power (W)	6600	8800	11000	13200	16500
AC Output Rated Current (A)	9.1	12.1	15.2	18.2	22.7
Max. AC Current (A)	13.6	18.2	22.7	27.3	34.1
Max. Continuous AC Passthrough (A)	50				
Peak Power (off grid)	2 time of rated power, 10 S				
Generator input/Smart load /AC couple current (A)	9.1 / *180 / 9.1	12.1 / *180 / 12.1	15.2 / *180 / 15.2	18.2 / *180 / 18.2	22.7 / *180 / 22.7
Power Factor	0.8 leading to 0.8 lagging				
Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380, 230/400Vac				
Grid Type	Three Phase				
DC injection current (mA)	<0.5%1n				
Efficiency					
Max. Efficiency	97.60%				
Euro Efficiency	97.00%				
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, Surge protection				
Certifications and Standards					
Grid Regulation	EN50549, AS4777.2, VDE0126, IEC61727, VDEN4105, G99, NBT32004, CEI0-21, NRS097, NBR16149/16150, RD1699				
Safety EMC / Standard	IEC62109-1/-2, EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4				
General Data					
Operating Temperature Range (°C)	-45~60°C, >45°C derating				
Cooling	Smart cooling				
Noise (dB)	<45 dB				
Communication with BMS	RS485; CAN				
Weight (kg)	26				
Size (mm)	396W×580H×230D				
Protection Degree	IP65				
Installation Style	Wall-mounted				
Warranty	5 years				