

# Hybrid Inverter

SUN-8K-SG01LP1-EU



Colorful touch LCD,  
IP65 protection degree



6 time periods for battery  
charging/discharging



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-8K-SG01LP1-EU
<b>Battery Input Data</b>	
Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range (V)	40~60
Max. Charging Current (A)	190
Max. Discharging Current (A)	190
Charging Curve	3 Stages / Equalization
External Temperature Sensor	Yes
Charging Strategy for Li-Ion Battery	Self-adaption to BMS
<b>PV String Input Data</b>	
Max. DC Input Power (W)	10400
PV Input Voltage (V)	370 (100~500)
MPPT Range (V)	125~425
Start-up Voltage (V)	150
PV Input Current (A)	22+22
Max. PV ISC (A)	28+28
No. of MPPT Trackers	2
No. of Strings Per MPPT Tracker	2+2
<b>AC Output Data</b>	
Rated AC Output and UPS Power (W)	8000
Max. AC Output Power (W)	8800
Peak Power (off grid)	2 times of rated power, 10 S
AC Output Rated Current (A)	35
Max. AC Current (A)	38.5
Max. Continuous AC Passthrough (A)	50
Output Frequency and Voltage	50 / 60Hz; 120 / 240Vac (split phase), 208Vac (2 / 3 phase), 230Vac (single phase)
Grid Type	Split phase; 2 / 3 phase; Single Phase
Current Harmonic Distortion	THD<3% (Linear load<1.5%)
<b>Efficiency</b>	
Max. Efficiency	97.60%
Euro Efficiency	97.00%
MPPT Efficiency	99.90%
<b>Protection</b>	
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
<b>Certifications and Standards</b>	
Grid Regulation	ABNT NBR 16149, ABNT NBR 16150, ABNT NBR 62116, AS4777.2, VDE 0126-1-1, NRS 097-2-1, CEC Guideline, UL1741, CSA C22.2 NO.107.1-16, UL 1741 SA, CPUC RULE 21, UL16998, UL 1741 CRD
Safety EMC / Standard	IEC62109-1/-2, IEC61000-6-1, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, IEC61000-2-2, 47 CFR Part 15
<b>General Data</b>	
Operating Temperature Range (°C)	-25~60°C, >45°C Derating
Cooling	Smart cooling
Noise (dB)	<30 dB
Communication with BMS	RS485; CAN
Weight (kg)	32
Size (mm)	420W×670H×233D
Protection Degree	IP65
Installation Style	Wall-mounted
Warranty	5 years