

# Hybrid Inverter

SUN-8K-SG01LP1-EU



Colorful touch LCD, IP65 protection degree

6

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

**Deye**

*Clean Power For You*

Model	SUN-8K-SG01LP1-EU
<b>Battery Input Data</b>	
Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range (V)	40~60V
Max. Charging Current (A)	190A
Max. Discharging Current (A)	190A
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)	10400W
PV Input Voltage (V)	370V (100V~500V)
MPPT Range (V)	125V-425V
Start-up Voltage (V)	150V
PV Input Current (A)	22A+22A
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)	8000W
Max. AC Output Power (W)	8800W
Peak Power (off grid)	2 times of rated power, 10 S
AC Output Rated Current (A)	35A
Max. AC Current (A)	38.5A
Max. Continuous AC Passthrough (A)	50A
Output Frequency and Voltage	50 / 60Hz; 230Vac (single phase)
Grid Type	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	VDE 0126, AS4777, NRS2017, G98, G99, IEC61683, IEC62116, IEC61727
Safety Regulation	IEC62109-1, IEC62109-2
EMC	EN61000-6-1, EN61000-6-3, FCC 15 class B
<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)	420Wx670Hx233D
Protection Degree	IP65
Installation Style	Wall-mounted
Warranty	5 years