

# Three Phase Hybrid Inverter

## SUN- 8 / 10 / 12 K-SG01LP3





**48** 48V low voltage battery, transformer isolation design

**6** 6 time periods for battery charging/discharging

**240** Max. charging/discharging current of 240A

**16** Frequency droop control, Max.16pcs parallel

 DC couple and AC couple to retrofit existing solar system

 Support storing energy from diesel generator

**Deye**

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Model	SUN-8K-SG01LP3	SUN-10K-SG01LP3	SUN-12K-SG01LP3
<b>Battery Input Data</b>			
Battery Type	Lead-acid or Li-Ion		
Battery Voltage Range (V)	40~60V		
Max. Charging Current (A)	190A	210A	240A
Max. Discharging Current (A)	190A	210A	240A
Charging Curve	3 Stages / Equalization		
External Temperature Sensor	Optional		
Charging Strategy for Li-Ion Battery	Self-adaption to BMS		
<b>PV String Input Data</b>			
Max. DC Input Power (W)	10400W	13000W	15600W
PV Input Voltage (V)	450V (140V~800V)		
MPPT Range (V)	140V-700V		
Start-up Voltage (V)	160V		
PV Input Current (A)	12.5A+12.5A	25A+12.5A	25A+12.5A
No.of MPPT Trackers	2		
No.of Strings Per MPPT Tracker	1+1	2+1	2+1
<b>AC Output Data</b>			
Rated AC Output and UPS Power (W)	8000W	10000W	12000W
Max. AC Output Power (W)	8800W	11000W	13200W
Peak Power (off grid)	2 times of rated power, 10 S		
AC Output Rated Current (A)	11.6A	14.5A	17.4A
Max. AC Current (A)	12.8A	16A	19.1A
Max. Continuous AC Passthrough (A)	60A	60A	60A
Output Frequency and Voltage	50/60Hz; 230/400Vac (Three phase)		
Grid Type	Three 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	UL1741, IEEE1547, RULE21, 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)	45		
Size (mm)	420W×656H×281D		
Protection Degree	IP65		
Installation Style	Wall-mounted		
Warranty	5 years		