

Deye 8kW SG01LP1 EU



Battery Input Data

- Battery Type: Lead-acid or Li-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: Optional
- Charging Strategy for Lithium Battery: Self-adaption to BMS

PV String Input Data

- Max. DC Input Power (W): 10400W.
- PV input Voltage (V): 370V (100V-500V).
- MPPT Range (V): 125-425V.
- Start-up Voltage (V): 150V.
- PV Input Current (A): 22A + 22A.
- No. of MPPT Trackers: 2
- No. of Strings Per MPPT Tracker: 2+2.

AC Output Data

- 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): 33.4A/35A
- Max.AC Output Current(A): 36.7A/38.5A.

- Max Continuous AC Pass-through(A): 50A.
- Output Frequency and Voltage: 50/60Hz; 120/240Vac(split phase), 208Vac(2/3 phase), 230Vac(single phase)
- Grid Type: THD<3%(Linear load<1.5%).
- Current Harmonic Distortion: THD<3% (Linear load<1.5%).

Efficiency

- Max. Efficiency: 97.60%
- Euro Efficiency: 97.00%
- MPPT Efficiency: 99.90%

Protection

- PV Arc Fault Detection: Integrated (Except European Type)
- 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

Certifications and Standards

- Grid Regulation: UL1741, IEEE1547, RULE21, VDE0126, AS4777, NRS2017, G98, G99, IEC61683, IEC62116, IE61727
- Safety Regulation: IEC62109-1, IEC62109-2
- EMC: EN61000-6-1, EN61000-6-3, FCC 15 class B

General Data

- Operating Temperature Range (C): -25—60 C , >45 C Derating
- Cooling: Fan
- Noise (dB): <30
- Communication with BMS: RS485; CAN
- Weight (kg): 32
- Size (mm): 680 X 4200 X 233mm
- Protection Degree: IP65
- Installation Style: Wall-mounted
- Warranty: 5 years