Inverter series



GP SERIES

6-12 kW EU Single-Phase Off-Grid Inverter

1. **Pure Sine Wave**
   THDv below 3% for linear loads.
2. **High Efficiency**
   98% peak inverter efficiency.
3. **Wide MPPT Range**
   85-450 VDC with 500 V maximum PV voltage.
4. **Parallel Expansion**
   Supports up to 12 units in parallel.
5. **Battery Communication**
   RS485 BMS communication for compatible batteries.
6. **Flexible Connectivity**
   RS232, RS485, dry contact and WiFi support.

Parameters

Items	GP-6KL1	GP-12KL1
Rated output	6,000 W / 6,000 VA	12,000 W / 12,000 VA
Surge power	12,000 VA / 5 s	24,000 VA / 5 s
Rated output current	27.3 A	54.5 A
Recommended PV input	8,000 W	16,000 W
Maximum PV voltage	500 V	500 V
MPPT operating range	85-450 V	85-450 V
Number of MPPT	1	2
PV current per MPPT	27 A	27 A x 2
PV short-circuit current	35 A	37 A x 2
Maximum grid input	11,500 W / 50 A	20,700 W / 90 A
Battery voltage	48 VDC (40-60 V)	48 VDC (40-60 V)
Max. charge / discharge	120 A / 130 A	210 A / 230 A
Product dimensions (mm)	347 x 445 x 120	525 x 630 x 125
Net weight	12.4 kg	28.5 kg
Shipping dimensions (mm)	560 x 465 x 240	715 x 620 x 210
Gross weight	14.6 kg	32 kg

Common output: 220 / 230 / 240 VAC, 50/60 Hz, pure sine wave

Battery: LiFePO4 / lead-acid, 40-60 VDC; BMS communication: RS485

Switching time: 10 ms typical (UPS) / 20 ms typical (home appliances)

Protection and environment: IP54; -10°C to 55°C; 5%-95% relative humidity

Specifications are based on the supplied GP series datasheet.

Final model configuration is subject to confirmation in the sales contract.