PG SERIES UNI Inverter Charger

PG2.0L / PG3.0L 12VDC 2kW / 3kW 230VAC

FEATURES





- All-in-one design significantly saves installation space and installation time
- Inverter charger combination
  - Rated power 12V 2kW / 3kW
  - High-frequency design featuring compact size, ultra-light weight, and quiet operation
  - Powering the AC load through 12V auxiliary battery and automatically perform charging upon connected to shore power
  - Outstanding overload capability for all kinds of demanding AC loads
  - Powerful AC charger with current up to 200A (PG3.0L)
  - Power control and power assist function to compose the generator hybrid system
  - High inverter / AC charger efficiency up to 93% (PG2.0L) / 94.5% (PG3.0L)
  - Extreme low zero-load power at 18W
- Integrated MPPT solar charge controller
  - Charge 12V auxiliary battery from PV with a wide range input voltage
  - Max charging current: 60A
- Integrated bi-directional DC-DC charger
  - Euro 6 compatible, PG charges the auxiliary battery while driving and maintaining the starter battery when parked
  - Auxiliary battery current: 12V 60A with 12V / 24V alternator (PG2.0L)
- Equipped with an insulation guard that automatically shuts down inverter output in case of low insulation, ensuring user safety
- Plug and play WAGO connectors ensure fast, reliable installation and prevent mismating
- Automatic power on when there is power from grid, or PV, or alternator

Model NO.	PG2.0L	PG3.0L
Inverter Charger		
Nominal Battery Voltage (V)	12	
Input Voltage Range (V)	9 ~ 15	
Zero Load Current (A)	≤ 1.5	
Static Current (mA)	≤ 1	
Cont. Output @ 25℃ (kVA / kW)	2.0	3.0
Cont. Output @ 40℃ (kVA / kW)	1.9	2.7
Peak Power (2s) (kW)	4.0	6.0
AC Output Voltage / Frequency	230Vac ± 2%, 50Hz ± 0.1%	
Inverter / AC Charger Efficiency (%)	Max: 92.5, Full load: 89	Max: 94.5, Full load: 91
AC Input Voltage / Frequency	176 ~ 264Vac, 45 ~ 65Hz	
Max. AC Charge Current (A)	130 @ 12V	200 @ 12V
Transfer Time (ms)	2 (< 15 in weak AC source mode)	
Max. AC Input Current (A)	Max 25 (Default 16)	
Bi-directional DC-DC Charger		
ALT Voltage (V)	12 / 24	12
Static Power (mA)	< 1 @ 12V ALT, < 2 @ 24V ALT	< 1 @ 12V ALT
ALT Current (A)	60 @ 12V ALT, 30 @ 24V ALT	60 @ 12V ALT
Auxiliary Battery Max. Charge / Discharge Current (A)	60 (12V BAT) @ 12V / 24V ALT	60 (12V BAT) @ 12V ALT
Converter Power (W)	780 @ 12V / 24V ALT	780 @ 12V ALT
Efficiency (%)	Max: 96.3, Full load: 94.5 @ 12V ALT Max: 95.5, Full load: 93 @ 24V ALT	Max: 97.6, Full load: 96 @ 12V ALT
MPPT		
PV Input Voltage Range (V)	15 ~ 60 @ 25℃	
Max PV Short Circuit Current (A)	50	
Max Power of PV Panels (kW)	1.0	
Max Charging Current (A)	60	
Efficiency (%)	Max: 96, Full load: 93.5	Max: 95.4, Full load: 94.5
MPPT Efficiency (%)	> 99.5	
Others		
Programmable Relay	Yes	
Insulation Guard	Yes (Disabled by default)	
Dimensions (mm)	446.9 × 273.2 × 89.2	449.9 × 333.2 × 86.9
Weight (kg)	5.9	9.1
Cooling	Forced fan	
Noise (dB)	≤ 55	
IP Rating	IP20	
Altitude (m)	0 ~ 5000 (Derating when > 2000)	
Operating Temperature Range (℃)	-30 ~ 65 (Derating when > 30)	
Safety Standards	IEC62109-1, IEC62109-2, IEC62477	
EMC Standards	EN61000-6-4, EN61000-6-2, ECE R10	EN61000-6-3, EN61000-6-1, ECE R10