

ON / OFF- GRID HYBRID INVERTER

TG-PFG-6KW PV 60-500Vdc



CT Sensor



Feed-in to the Grid



Parallel 12 units No Battery Mode



RS232 / RS485



PF=1.0



Pure sine wave

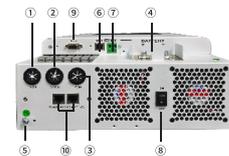


WiFi



Product Features

- Self-consumption and Feed-in to the grid
- Programmable multiple operation modes :
Grid-tie , off-grid and grid-tie with backup
- Backflow prevention via external CT sensor and grid connection function
- Parallel operation up to 12 units in 1phase or 3phase
- Direct Plug WIFI Dongle Supported
- Output power factor 1.0
- High PV input voltage range 500Vdc Max
- Built-in MPPT solar controller 100 / 120A
- WiFi remote monitoring optional
- Detachable dust cover for harsh environment
- User-adjustable charging current and voltage
- Programmable supply priority for PV , Battery or Grid
- Support multiple output priority: SBU / SUB / SUF / ZEC
- EQ function to optimize battery performance and extend lifecycle



GM6200 - 48PL

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|------------------|---------------------------------|
| 1. AC input | 6. RS485 communication port |
| 2. AC output | 7. AC grid current sensor |
| 3. PV input | 8. Power on/off switch |
| 4. Battery input | 9. RS232 communication port |
| 5. Grounding | 10. Parallel communication port |

Technical Data

MODEL	ON OFF GRID TG-PFG-6KW
Phase	1-Phase In / 1-Phase Out
Maximum PV input power	6500W
Parallel Function	YES,12 Units
Rated output power	6200VA/6200W
Lithium battery activation	Yes (By PV or Utility)
Lithium battery communication	Yes
GRID-TIE OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	360VDC / 500VDC
Start-up Voltage / Initial Feeding Voltage	150VDC / 120VDC
MPPT Voltage Range	60VDC~500VDC
Number of MPP Trackers / Maximum Input Current	1/27A
GRID OUTPUT (AC)	
Nominal Output Voltage	220 / 230 / 240VAC
Output Voltage Range	170-280VAC or 90-280VAC
Nominal Output Current	27A
Power Factor	0.6~1 (inductive or capacitive)
Maximum Conversion Efficiency (DC/AC)	94%
OFF-GRID OPERATION	
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	100Vac / 90Vac
Acceptable Input Voltage Range	170-280VAC or 90-280VAC
Maximum AC Input Current	40A
PV INPUT (DC)	
Maximum DC Voltage	500VDC
MPPT Voltage Range	60VDC~500VDC
Number of MPP Trackers / Maximum Input Current	1/27A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	220/230/240VAC
Output Waveform	Pure Sine wave
Efficiency (DC to AC)	94%
HYBRID OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	360VDC/500VDC
Start-up Voltage / Initial Feeding Voltage	150VDC/120VDC
MPPT Voltage Range	60VDC~500VDC
Number of MPPT Trackers / Maximum Input Current	1/27A
GRID OUTPUT (AC)	
Nominal Output Voltage	220/230/240VAC
Output Voltage Range	170-280VAC or 90-280VAC
Nominal Output Current	27A
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	100Vac/90Vac
Acceptable Input Voltage Range	170-280VAC or 90-280VAC
Maximum AC Input Current	40A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	48VDC
Efficiency (DC to AC)	94%
BATTERY & CHARGER	
Nominal DC Voltage	48VDC
Maximum Solar Charging Current	120A
Maximum AC Charging Current	80A
Maximum Charging Current	120A
GENERAL	
PHYSICAL	
Dimension, D x W x H (mm)	450x300x130
Net Weight (kgs)	12
Communication Port	RS232+RS485+ External CT Port
ENVIRONMENT	
Humidity	5%~95% Relative Humidity (Non-condensing)
Operating Temperature	-10°C~50°C

Product specifications are subject to change without further notice.