

ON / OFF- GRID HYBRID INVERTER

GM Series 6.2KW PV 120-500Vdc



Parallel 12 units



CT Sensor



Feed-in to
the Grid



No Battery Mode



RS232 / RS485



PF=1.0



Pure sine wave



WiFi



Product Features

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

Technical Data

MODEL	GM6200 - 48PL
Phase	1-Phase In / 1-Phase Out
Maximum PV input power	6200W
Rated output power	6200VA/6200W
Lithium battery activation	Yes
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 Sinewave
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
INTERFACE	
Parallel Function	1-phase parallel*12 or 3-phase parallel*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.

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