

# ON / OFF- GRID HYBRID INVERTER

## GM Series 5.5 / 6.2KW PV 60-500Vdc



CT Sensor



Feed-in to the Grid



Parallel 12 units No Battery Mode



RS232 / RS485



PF=1.0



Pure sine wave

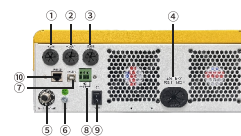


WiFi

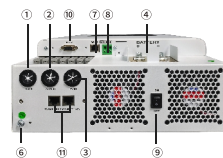


### Product Features

- 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



GM5500 - 48PL



GM6200 - 48PL

- |                    |                                 |
|--------------------|---------------------------------|
| 1. AC input        | 7. RS485 communication port     |
| 2. AC output       | 8. AC grid current sensor       |
| 3. PV input        | 9. Power on/off switch          |
| 4. Battery input   | 10. RS232 communication port    |
| 5. Circuit breaker | 11. Parallel communication port |
| 6. Grounding       |                                 |

# Technical Data

MODEL	GM5500 - 48PL	GM6200 - 48PL
Phase	1-Phase In / 1-Phase Out	1-Phase In / 1-Phase Out
Maximum PV input power	5500W	6500W
Parallel Function	YES, 12 Units	
Rated output power	5500VA / 5500W	6200VA/6200W
Lithium battery activation	Yes (By PV or Utility)	Yes (By PV or Utility)
Lithium battery communication	Yes	Yes
<b>GRID-TIE OPERATION</b>		
<b>PV INPUT (DC)</b>		
Nominal DC Voltage / Maximum DC Voltage	360VDC / 500VDC	
Start-up Voltage / Initial Feeding Voltage	150VDC / 120VDC	
MPPT Voltage Range	60VDC ~ 500VDC	60VDC~500VDC
Number of MPP Trackers / Maximum Input Current	1 / 18A	1/27A
<b>GRID OUTPUT (AC)</b>		
Nominal Output Voltage	220 / 230 / 240VAC	
Output Voltage Range	170-280VAC or 90-280VAC	
Nominal Output Current	22A	27A
Power Factor	0.6~1 (inductive or capacitive)	
Maximum Conversion Efficiency (DC/AC)	94%	
<b>OFF-GRID OPERATION</b>		
<b>AC INPUT</b>		
AC Start-up Voltage / Auto Restart Voltage	100Vac / 90Vac	
Acceptable Input Voltage Range	170-280VAC or 90-280VAC	
Maximum AC Input Current	40A	
<b>PV INPUT (DC)</b>		
Maximum DC Voltage	500VDC	
MPPT Voltage Range	60VDC~500VDC	60VDC~500VDC
Number of MPP Trackers / Maximum Input Current	1 / 18A	1/27A
<b>BATTERY MODE OUTPUT (AC)</b>		
Nominal Output Voltage	220/230/240VAC	
Output Waveform	Pure Sine wave	
Efficiency (DC to AC)	94%	
<b>HYBRID OPERATION</b>		
<b>PV INPUT (DC)</b>		
Nominal DC Voltage / Maximum DC Voltage	360VDC/500VDC	
Start-up Voltage / Initial Feeding Voltage	150VDC/120VDC	
MPPT Voltage Range	60VDC~500VDC	60VDC~500VDC
Number of MPPT Trackers / Maximum Input Current	1/18A	1/27A
<b>GRID OUTPUT (AC)</b>		
Nominal Output Voltage	220/230/240VAC	
Output Voltage Range	170-280VAC or 90-280VAC	
Nominal Output Current	22A	27A
<b>AC INPUT</b>		
AC Start-up Voltage / Auto Restart Voltage	100Vac/90Vac	
Acceptable Input Voltage Range	170-280VAC or 90-280VAC	
Maximum AC Input Current	40A	
<b>BATTERY MODE OUTPUT (AC)</b>		
Nominal Output Voltage	48VDC	
Efficiency (DC to AC)	94%	
<b>BATTERY &amp; CHARGER</b>		
Nominal DC Voltage	48VDC	48VDC
Maximum Solar Charging Current	100A	120A
Maximum AC Charging Current	80A	80A
Maximum Charging Current	100A	120A
<b>GENERAL</b>		
<b>PHYSICAL</b>		
Dimension, D x W x H (mm)	448*315*122	450x300x130
Net Weight (kgs)	11	12
Communication Port	RS232+RS485+ External CT Port	
<b>ENVIRONMENT</b>		
Humidity	5%~95% Relative Humidity (Non-condensing)	
Operating Temperature	-10°C~50°C	

Product specifications are subject to change without further notice.