



**GLOBAL POWER**



GP10K12PV-US-GE is an IP65-graded hybrid inverter with two MPPTs and a 10000-watt continuous output power. Designed with door-type cable compartment as user-friendly wiring area, it's simple enough to install by yourself. The whole package is included CT sensor which guarantees 100% self-consumption. Besides, inbuilt 200A DC breaker and 60A AC breaker secure safer operation.

## Hybrid Inverter

# GP10K12PV-US-GE

- Support multiple input & output- Split Phase 120V/240V Split phase, 120V/208V Split phase
- Door-type cable compartment
- Built-in 300A DC breaker and 60A AC breaker
- Built-in AC coupled function
- Built-in WiFi for mobile monitoring (APP is available)
- Accepts second input power source, generator input compatible
- Built-in arc fault detection (AFD) and rapid shutdown (RSD)
- External CT sensor to guarantee 100% self-consumption
- Built-in communication port for BMS (RS485)
- User-adjustable charging current and voltage
- Parallel operation up to 6 units



learn more about Solar Assistant : <https://solar-assistant.io/>



## Hybrid Inverter

# GP10K12PV-US-GE



### GP10K12PV-US-GE Split-phase Hybrid Inverter Specification

MODEL	GP10K12PV-US-GE
PHASE	120V/240V Split phase, 120V/208V Split phase
Maximum PV Input Power	12000W
Rated Output Power	10000VA/10000W
Maximum Charging Power	10000W
<b>GRID-TIE OPERATION</b>	
<b>PV INPUT (DC)</b>	
Maximum DC Voltage	600 VDC
Start-up Voltage / Initial Feeding Voltage	125 VDC / 160 VDC
MPP Voltage Range	120 VDC ~ 550 VDC
Number of MPP Trackers / Maximum Input Current	2 / 18A (MAX 30A)
<b>GRID OUTPUT (AC)</b>	
Nominal Output Voltage	120 VAC (P-N), 208 VAC (P-P), 240 VAC (P-P)
Output Voltage Range	105.5 VAC - 132 VAC (per phase)
Nominal Output Current	41.7 A per phase
Power Factor	0.9 lag to 0.9 lead
<b>EFFICIENCY</b>	
Maximum Conversion Efficiency (DC/AC)	96%
<b>OFF-GRID, HYBRID OPERATION</b>	
<b>PV INPUT (DC)</b>	
Maximum DC Voltage	600 VDC
Start-up Voltage / Initial Feeding Voltage	125 VDC / 160 VDC
MPP Voltage Range	120 VDC ~ 550 VDC
Number of MPP Trackers / Maximum Input Current	2 / 18A (MAX 30A)
<b>AC INPUT</b>	
AC Start-up Voltage / Auto Restart Voltage	85 VAC (per phase) / 90 VAC (per phase)
Acceptable Input Voltage Range	85 - 140 VAC (per phase)
Maximum AC Input Current	60 A per phase
<b>BATTERY MODE OUTPUT (AC)</b>	
Nominal Output Voltage	120 VAC (P-N), 208 VAC (P-P), 240 VAC (P-P)
Output Waveform	Pure sine wave
Efficiency (DC to AC)	91%
<b>BATTERY &amp; CHARGER</b>	
DC Voltage Range / Nominal Voltage	40-62 VDC / 48 VDC
Maximum Solar Charging Current	200A
Maximum AC Charging Current	200A
Maximum Charging Current	200A
<b>GENERAL</b>	
<b>PHYSICAL</b>	
Dimension, D x W x H (mm)	215.5 x 515 x 798
Net Weight (kgs)	49
<b>ENVIRONMENT</b>	
Operating Temperature	-25°C to 60°C (>45°C derating)
<b>PROTECTION &amp; CERTIFICATE</b>	
Safety	UL1741SA, UL1741SB, CSA 22.2.107.1, CEC
Grid Connection Standard	IEEE 1547.1:2020; IEEE 1547:2018, California Rule 21, HECO Rule 14H
EMC	FCC Part 15 Class B
PV DC Switch - NEC 250.15	Yes
Ground Fault Detection — NEC 690.5	Yes
PV Rapid Shutdown Protection - NEC 690.12	Yes
PV Arc Fault Detection — NEC 690.11	Yes
PV Input Lightning Protection	Yes
3 x 60A AC Input and Output Breaker	Built-in
200A x 2 Battery DC Breaker	Built-in

Product specifications are subject to change without further notice.