

ExpertPower 10KW Hybrid Solar Inverter



- Support multiple input & output- Split Phase 208/240Vac or Single Phase 230Vac
- 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

MODEL	IVV48V10KW
PHASE	120V/240V Split phase, 120V/208V Split phase
Maximum PV Input Power	12000W
Rated Output Power	10000VA/10000W
Maximum Charging Power	10000W
GRID-TIE OPERATION	
PV INPUT (DC)	
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 40A)
GRID OUTPUT (AC)	
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
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	96%
OFF-GRID, HYBRID OPERATION	
PV INPUT (DC)	
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
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	85 VAC (per phase) / 90 VAC (per phase)
Acceptable Input Voltage Range	90 - 140 VAC (per phase)
Maximum AC Input Current	60 A per phase
BATTERY MODE OUTPUT (AC)	
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%
BATTERY & CHARGER	
DC Voltage Range / Nominal Voltage	40-62 VDC / 48 VDC
Maximum Solar Charging Current	200A
Maximum AC Charging Current	200A
Maximum Charging Current	200A
GENERAL	
PHYSICAL	
Dimension, D x W x H (inch)	8.48 x 20.3 x 31.4
Net Weight (lbs)	108
ENVIRONMENT	
Operating Temperature	-13°F to 140°F (>113°F derating)
PROTECTION & CERTIFICATE	
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.	

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