

DATASHEET

5K / 8K-1P-L

Residential Hybrid Inverter - Central America and Caribbean

Inverter Model:

5K-120V/8K-230V-1P

SKU: 5K-1P

Input Data (PV)		
Max. Allowed PV Power (STC)	10,400W	
Rated MPPT Operating Voltage Range	200 - 425V	
MPPT Voltage Range	125 - 500V	
Startup Voltage	125V	
Max. Input Voltage ¹	500V	
Max. Operating Input Current per MPPT	26A	
Max. Short Circuit Current per MPPT	34A	
No. of MPP Trackers	2	
No. of PV Strings per MPPT	2	
Output Data (AC)		
Nominal AC Voltage	5K 120V Single-Phase	8K 240V Single-Phase
Real Power, max continuous ²	4,800W	8,000W
Max. Output Current ³	40A	33.3A
Peak Apparent Power (5s, off-grid) ⁴	7,200VA	12,000VA
Additional AC Output Voltages (single phase)	120V - 127V - 220V - 230V	
Grid Frequency	50 / 60Hz	
Max. Grid Passthrough Current	50A	
Power Factor Output Range	+/- 0.9 adjustable	
Backup Transfer Time	5ms	
Max Efficiency	97.6%	
Sell Back Power Modes	Limited to Household / Fully Grid-Tied	
Design (DC to AC)	Transformerless DC	
Stackable	Up to 8 in parallel	
Battery Input Data (DC)		
Battery Technologies	Lithium / Lead Acid	
Nominal DC Voltage	48V	
Operating Voltage Range	40 - 60V	
Capacity	50 – 9900Ah	
Max. Battery Charge / Discharge Current	120A	
Charging Controller	3-Stage with Equalization	
Grid to Battery Charging Efficiency	96.0%	
External Battery Temperature Sensor (BTS)	Included	
Automatic Generator Start (AGS)	2 Wire Start - Integrated	
BMS Communication	CANBus & RS485 MODBUS	
General Data		
Dimensions (H x W x D)	600 x 330 x 237 mm (23.6 x 13 x 9.3 in)	
Weight	24 kg / 53 lb.	
Enclosure	IP65 / NEMA 3R	
Ambient Temperature	-40~60°C, > 45°C Derating	
Noise	< 30 dB @ 25°C (77°F)	
Idle consumption - No Load	60W	
Communication and Monitoring	Wi-Fi & LAN Hardware Included	
Standard Warranty	10 Years	
Protection and Certifications		
Certifications and Listings	UL1741-2010/2018, IEEE1547a-2003/2014	
PV Arc Fault Detection – NEC 690.11	Integrated	
PV Input Lightning Protection	Integrated	
Anti-Islanding Protection	Integrated	
PV String Input Reverse Polarity Detection	Integrated	
Insulation Resistor Detection	Integrated	
Residual Current Monitoring Unit	Integrated	
Output Over Current Protection	Integrated	
Output Shorted Protection	Integrated	
Surge Protection	DC Type II / AC Type II	

1. See Installation Guide for more details on sizing array strings. The highest input voltage is based on the open-circuit voltage of the array at the minimum design temperature.

2. Maximum continuous power will vary depending on programmed output voltage: 8,000W @ 220V, 230V & 240V and 4,800W @ 120 & 127V.

3. Maximum output current will vary depending on programmed output voltage.

4. Peak power will vary depending on programmed output voltage: 12,000VA @ 220V, 230V & 240V and 7,200W @ 120 & 127V.