



Datasheet

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

Input Data (PV)

Max. Allowed PV Power (STC)	10,400W
Full Power Voltage Range (Full Load)	200 - 425V
Startup Voltage	125V
Max. Input Voltage	500V
Max. Input Current per MPPT	20A (self-limiting)
No. of MPP Trackers	2
No. of PV Strings per MPPT	2

Output Data (AC)

	5K	8K
Nominal AC Voltage	120V Single Phase	240V Single Phase
Real Power, max continuous	4,800W	8,000W
Max. Output Current	40A	33.3A
Peak Apparent Power (5s, off-grid)	7,200VA	12,000VA
Additional AC Output Voltages (single phase)	127V - 220V - 230V	
Grid Frequency	50 / 60Hz	
Max. Grid Passthrough Current	50A	
Power Factor Output Range	+/- 0.8 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	43 - 63V
Capacity	50 – 9900Ah
Max. Battery Charge / Discharge Current	120A
Charging Controller	3-Stage with Equalization
Grid to Battery Charging Efficiency	96.0%
External Temperature Sensor	Included
Current Shunt for Accurate % SOC	Integrated
Automatic Generator Start	Integrated
Communication to Lithium	CANBus & RS485

General Data

Dimensions (H x W x D)	300 x 600 x 232 mm / 26.4 x 16.5 x 9.2 in
Weight	24 kg / 53 lb.
Enclosure	IP65 / NEMA 3R
Ambient Temperature	-25~60°C, > 45°C Derating
Noise	< 30 dB
Idle consumption - No Load	60W
Installation Type	Wall-Mounted
Wi-Fi & LAN Communication	Included
Standard Warranty	5 Years

Protection and Certifications

PV Input Lightning Protection	Yes
Sell Back – UL1741-2010/2018, IEEE1547a-2003/2014	Yes
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