



# 5K-120V/8K- 230V-1P Spec Sheet



## Battery Input Data (Optional)

|                                             |                         |
|---------------------------------------------|-------------------------|
| Type                                        | Lead-Acid or Li-Ion     |
| Nominal DC Input                            | 48V                     |
| Capacity                                    | 50 — 9900Ah             |
| Voltage Range                               | 40V-60V                 |
| Continuous Battery Charging Output          | 120A                    |
| Charging Curve                              | 3-Stage w/ Equalization |
| Grid to Batt Charging Efficiency            | 96.0%                   |
| External Temperature Sensor                 | Included                |
| Current Shunt for Accurate % SOC            | Integrated              |
| External Gen Start Based on Voltage or %SOC | Integrated              |
| Communication to Lithium Battery            | CanBus & RS485          |

## Solar String Input Data

|                                |                 |
|--------------------------------|-----------------|
| Max Allowed PV Power           | 10400W          |
| PV Input Voltage               | 370V (100~500V) |
| PV Input Current               | 20A + 20A       |
| Max PV Isc (A)                 | 26A + 26A       |
| Starting Voltage / Min Voltage | 150V            |
| Number of MPPT / Range (V)     | 2 / 125-425V    |
| Solar Strings Per MPPT         | 2 + 2           |
| MPPT Efficiency                | 99.90%          |

## General

|                           |                          |
|---------------------------|--------------------------|
| Dimensions (H x W x D)    | 22.8 x 13 x 9.1 in       |
| Weight                    | 45 lbs                   |
| Enclosure                 | IP65 / NEMA 3R           |
| Ambient Temperature       | -25~60°C, >45°C Derating |
| Noise                     | <30 dB                   |
| Installation Style        | Wall-Mounted             |
| Wi-Fi & LAN Communication | Included                 |
| Standard Warranty         | 5 Years (10yr USA)       |

## AC Output Data

5K | 8K

|                                       |                                      |              |
|---------------------------------------|--------------------------------------|--------------|
| Grid Type (Single Phase only)         | 120V 1P                              | 230V/240V 1P |
| Rated AC Output                       | 5000W                                | 8000W        |
| Peak Power (Off-Grid)                 | 10000W, 10S                          | TBD          |
| Rated AC Output Current (A)           | 41.7 A                               | 34.8 A       |
| Parallel Stacking                     | Yes - Up to 8                        |              |
| Frequency                             | 60/50Hz                              |              |
| Max continuous AC passthrough (A)     | 45A                                  | 45A          |
| Max Efficiency                        | 97.6%                                |              |
| Idle Consumption Typical—No Load      | TBD                                  |              |
| Sell Back Power Modes                 | Limited to Household/Fully Grid-Tied |              |
| Design (DC to AC)                     | Transformerless DC                   |              |
| Response Time (Grid-Tied to Off-Grid) | 5ms                                  |              |
| Power Factor                          | +/- 0.9 - 1.0                        |              |

## Protections & Certifications

|                                                                                   |                         |
|-----------------------------------------------------------------------------------|-------------------------|
| PV Input Lightning Protection                                                     | Yes                     |
| Grid Sell Back — UL1741-2010/2018, IEE-E1547a-2003/2014, FCC 15 Class B, UL1741SA | 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 |