



**8K-2P-L**

**Spec Sheet**

**Central America  
& Caribbean**



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	185A
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	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)	26.4 x 16.5 x 9.2 in
Weight	70.5 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

AC Output Data	
Grid Type	Split Phase 120V/240V
Rated AC Output	8000W
Peak Power (Off-Grid)	12,000VA, 5S
Rated AC Output Current (A)	33.3A
Parallel Stacking	Yes - Up to 8
Frequency	60/50Hz
Max continuous AC passthrough (A)	50A
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	+/- 0.8 - 1.0

Protections & Certifications	
PV Input Lightning Protection	Yes
Grid Sell Back — UL1741-2010/2018, IEE-E1547a-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