

12K-3P-L

Spec Sheet

South America & Caribbean



Solar String Input Data	
Max Allowed PV Power	15,600W
Rated DC Voltage / Max	550V / 800V
MPPT Voltage Range	200-650V
Starting Voltage / Min Voltage	160V
Number of MPPT	2
Max Solar Strings Per MPPT	2+1
Max DC Current per MPPT (A)	26A + 13A
MPPT Efficiency	99.90%

AC Output Data	
Grid Type	Three Phase (3P) [220/380V, 230/400V, 240/420V]
Rated AC Output	12,000W
Peak Power (Off-Grid)	18,000W 5S
Rated AC Output Current (A)	18.2A / 17.4A
Parallel Stacking	Yes - Up to 8
Frequency	60/50Hz
Max continuous AC passthrough (A)	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	+/- 0.8 - 1.0

Battery Input Data (Optional)		
Туре	Lead-Acid or Li-lon	
Nominal DC Input	48V	
Capacity	50 — 9900Ah	
Voltage Range	40V-60V	
Continuous Battery Charging Output	240A	
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	

General	
Dimensions (H x W x D)	27.6 x16.6 x 11.1 in
Weight	76.1 lbs
Enclosure	IP65 / NEMA 3R
Ambient Temperature	-25~60°C, >45°C
	Derating
Noise	< 45 dB
Installation Style	Wall-Mounted
Wi-Fi & LAN Communication	Included
Standard Warranty	5 Years

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