



60K-3P-480V-N

Spec Sheet



Solar Input Power 78,000W	
Max Allowed PV Power	78,000W
Max PV Power Delivered to Battery & AC Outputs	60,000W
Max DC Voltage (Voc)	1,000V @ 36A
MPPT Voltage Range	200-850V
Starting Voltage	180V
Number of MPPT	4
Max Solar Strings Per MPPT	2
Max DC Current per MPPT (Self Limiting)	36A
Max AC Coupled Input (Micro/String Inverters)	60,000W

AC Output Power 60kW On-Grid & Off-Grid	
Connections	277V/480V Three Phase
Continuous AC Power with PV	60,000W 72.2A (480V)
Continuous AC Power from Batteries	60,000W 72.2A (480V) TBD
Surge AC Power 10sec	90,000VA 108.3A (480V)
Surge AC Power 100ms	TBD
Parallel Stacking	Yes - Up to 12
Frequency	60/50Hz
Continuous AC Power with Grid or Generator	102,000W 160A L-N (277V)
CEC Efficiency	96.5% (Peak 97.5%)
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 (optional) Output Power 60,000W	
Type Number of Inputs	Li-Ion 2 Inputs
Nominal DC Input	>600V
Capacity	50 — 9,900Ah
Voltage Range	160V ~ 800V
Continuous Battery Charging Output	100A (50A Per Input)
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)	35.2" x 20.8" x 11.6"
Weight	172 lbs
Enclosure	IP65 / NEMA 3R
Ambient Temperature	-40~60°C, >45°C Derating
Installation Style	Wall-Mounted
Wi-Fi & LAN Communication	Included
Standard Warranty (verified by HALT Testing)	10 years

Protections & Certifications	
Electronics Certified Safety by SGS Labs to NEC & UL Specs - NEC 690.4B & NEC 705.4/6	pending
Grid Sell Back — UL1741-2010/2018, IEE-E1547a-2003/2014, FCC 15 Class B, UL1741SB, CA Rule 21, HECO Rule 14H	pending
PV DC Disconnect Switch — NEC 240.15	Integrated
Ground Fault Detection — NEC 690.5	Integrated
PV Rapid Shutdown Control — NEC 690.12	Integrated
PV Arc Fault Detection — NEC 690.11	Integrated
PV Input Lightning Protection	Integrated
PV String Input Reverse Polarity Protection	Integrated
AC Output Breakers - 200A	Integrated
Surge Protection	DC Type II / AC Type