



60K-3P-480V-N Spec Sheet



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	

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)	277V x 150A x 3 = 125KVA with no PVdc	

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

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 7 sec	120,000VA 144.4A x 277V x 3
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

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 III