



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 |