



15K-2P-N

**UL Model:
"Limitless 15K-LV"**



| Solar Input Power 19,500W | |
|--|------------|
| Max Allowed PV Power | 19,500W |
| Max PV Power Delivered to Battery & AC Outputs | 15,000W |
| Max DC Voltage (Voc) | 500V @ 26A |
| MPPT Voltage Range | 125-425V |
| Starting Voltage | 125V |
| Number of MPPT | 3 |
| Max Solar Strings Per MPPT | 2 |
| Max DC Current per MPPT (Self Limiting) | 26A |
| Max AC Coupled Input (Micro/String Inverters) | 19,200W |

| AC Output Power 15kW On-Grid & Off-Grid | |
|--|--|
| Connections | 120/240/208V Split Phase |
| Continuous AC Power with PV | 15,000W 62.5A-L (240V) |
| Continuous AC Power from Batteries | 12,000W 50A-L (240V) |
| Total Harmonic Distortion (THD) | ≤ 3% |
| Surge AC Power 10sec | 24,000VA L-L (240V) |
| Surge AC Power 100ms | 30,000VA L-L (240V) |
| Fault Current 5sec | 94A w/ PV 75A w/o PV |
| Fault Current 100ms | 120A |
| Parallel Stacking | Yes - Up to 12 |
| Frequency | 60/50Hz |
| Continuous AC Power with Grid or Generator | 48,000W 200A L-L (240V) 24,000W 200A L-N (120V) |
| CEC Efficiency | 96.5% (Peak 97.5%) |
| Idle Consumption Typical—No Load | 90W |
| 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 | +/- 0.9 - 1.0 |

| Battery (optional) Output Power 12,000W | |
|---|-------------------------|
| Type | Lead-Acid or Li-Ion |
| Nominal DC Input | 48V |
| Capacity | 50 — 9900Ah |
| Voltage Range | 43.0 — 63.0V |
| Continuous Battery Charging Output | 275A |
| 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) | 31.8" x 18.3" x 10.9" |
| Weight (package) | 135 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 | Yes |
| Grid Sell Back — UL1741-2010/2018, IEEE1547a -2003/2014, FCC 15 Class B, UL1741SB, CA Rule 21, HECO Rule 14H | Yes |
| 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 |
| 200A x 2 Battery Breaker / Disconnect | Integrated |
| Surge Protection | DC Type II / AC Type II |