



Datasheet

Limitless 15K-LV

Input Data (PV)

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|-----------------------------|---------------------|
| Max. Allowed PV Power (STC) | 19,500W |
| Nominal Voltage Range | 175 - 425V |
| Startup Voltage | 125V |
| Max. Input Voltage | 500V |
| Max. Input Current per MPPT | 26A (self-limiting) |
| No. of MPP Trackers | 3 |
| No. of PV Strings per MPPT | 2 |

Output Data (AC)

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| Nominal AC Voltage (L-L) | 120/240V, 120/208V, 220V |
| Grid Frequency | 50 / 60Hz |
| Real Power, max continuous | 15,000W |
| Max. Output Current | 62.5A |
| Real Power, max continuous (batteries only, no PV) | 12,000W (50A @ 240V) |
| Peak Apparent Power (10s, off-grid) | 24,000VA |
| Peak Apparent Power (100ms, off-grid) | 30,000VA |
| Max Output Fault Current (5s) | 94A with PV, 75A (batteries only, no PV) |
| Max Output Fault Current (100ms) | 120A |
| Max. Grid Passthrough Current | 200A |
| Power Factor Output Range | +/- 0.8 adjustable |
| Backup Transfer Time | 5ms |
| CEC Efficiency | 96.5% |
| Max Efficiency | 97.5% |
| Design (DC to AC) | Transformerless DC |
| Stackable | Up to 12 in parallel |

Battery Input Data (DC)

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|---|---------------------------|
| Battery Technologies | Lithium / Lead Acid |
| Nominal DC Voltage | 48V |
| Operating Voltage Range | 43 - 63V |
| Capacity | 50 – 9900Ah |
| Max. Battery Charge / Discharge Current | 275A |
| Charging Controller | 3-Stage with Equalization |
| Grid to Battery Charging Efficiency | 96.0% |
| External Temperature Sensor | Included |
| Current Shunt for Accurate % SOC | Integrated |
| Automatic Generator Start | Integrated |
| Communication to Lithium | CANBus & RS485 |

General Data

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|----------------------------|--|
| Dimensions (H x W x D) | 807 x 494 x 306 mm / 31.8 x 19.4 x 12 in |
| Weight | 61.2 Kg / 135 lb. |
| Enclosure | IP65 / NEMA 3R |
| Ambient Temperature | -25~60°C, > 45°C Derating |
| Noise | < 30 dB |
| Idle consumption - No Load | 60W |
| Wi-Fi & LAN Communication | Included |
| Standard Warranty | 10 Years |

Protection and Certifications

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|---|-------------------------|
| 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 Breaker - 200A | Integrated |
| 200A x 2 Battery Breaker / Disconnect | Integrated |
| Surge Protection | DC Type II / AC Type II |