**Solar Output Power 12000W**

- Max allowed PV DC Capacity: 6,500W + 6,500W = 13,000W
- Max PV power delivered to Battery & AC outputs: 12000W
- Max DC voltage: 500V@18A, 450V@20A
- MPPT voltage range: 150-425V
- MPPT Starting voltage: 175V
- Number of MPPT: 2
- Solar Strings per MPPT: 2 w/o fuses, 3 w/ fuses
- Max DC current per MPPT (self limiting): 20A@300V, 18A@400V
- Max AC Coupling (Gen Breaker / Load Breaker): 7,600W / 9,600W

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- 500V@18A, 450V@20A

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- 20A@300V, 18A@400V

**Max AC Coupling (Gen Breaker / Load Breaker):**
- 7,600W / 9,600W

**AC Output Power 9000W On Grid & 8000W Off Grid**

- Continuous AC power to Grid (On Grid): 9000W 37.5A L-L (240V)
- Continuous AC power to Loads (Off Grid): 4800W 40A L-N (120V)
- Surge AC power 100ms: 16,000VA L-L (240V)
- Parallel Stacking: 2-8 (240V), 3-9 (208V)
- Frequency: 60/50Hz
- Continuous AC power with Grid or Generator: 12000W 50A L-L (240V)
- CEC Efficiency: 96.5% (Peak 97.5%)
- Idle Consumption typical – no load: 60W
- Sell back power modes: Limited to Household or Full Grid Tied
- Design (DC to AC): Transformerless DC
- Response Time (Grid-Tied to Off-Grid): 4ms
- Power Factor: +0.9 -1.0

**Battery (optional) Output Power 9000W**

- Type: Lead-Acid or Li-Ion
- Nominal DC Input: 48V
- Capacity: 50 – 9900Ah
- Voltage Range: 43.0 – 63.0V
- Continuous Battery charging output: 185A
- Charging curve: 3-stage w/ equalization
- Grid to Battery Charging Efficiency: 96.0%
- External temperature sensor: included
- Current shunt for accurate % SOC: integrated
- External Generator Start based on voltage or % SOC: integrated
- Communication to Lithium Battery: CanBus & RS485

**General**

- Dimensions (H x W x D): 32.0” x 16.75” x 9.37”
- Weight: 74 lbs
- Enclosure: NEMA type 1 (Indoor Use)
- Temperature (3 variable speed fans): -25 to 55C, -40C derating
- Display: Color touch screen
- Wi-Fi Communication (monitoring or SW updates): included
- Snap on sensors for limited selling to Household: included
- Standard Warranty (verified by HALT testing): 10 years

**Protection & Certifications**

- Electronics certified safety by SGS labs to NEC & UL specs – NEC 690.4B & NEC 705.46
- PV DC disconnect switch – NEC 240.15
- Ground Fault Detection – NEC 690.5
- PV rapid shutdown control – NEC 690.12
- PV Arc Fault detection – NEC 690.11/UL1699B
- PV input lightning protection
- AC input/output 50A breakers
- 250A Battery breaker / disconnect
- User wiring enclosure w/ 6" & 1" knock outs
- Solar Flare/EMP Hardened to 2015 MIL-STD-461G (Independently tested June 2018)
STACKABLE, No Glitch, ALL-IN-ONE HYBRID

What’s Inside

- **Two Built-in** 500V Charge Controllers
- 1 - 6 PV Strings
- Battery Disconnect
- 48V Battery Input
- Battery Temp Sensor
- Auto-Generator Start
- Rapid Shut Down Signal
- Current Sensors Included
- Battery Communication
- PV Disconnect
- Wiring Knockouts & WiFi
- 50A AC In/Out
- 50A AC Load Out
- 40A AC Gen In/Smart Load Out

**Limitless**

PARALLEL STACKING (1-9), GRID SELL, METER ZERO, TIME OF USE, SMART LOAD, PEAK SHAVING, 20 kW PEAK POWER, 9.6kW AC COUPLING

**Highly Accelerated Life Testing**

PROVEN TO LAST WELL BEYOND THE STANDARD 10 YEAR WARRANTY

**Engineered, Tested, Serviced in U.S.A**

TALK TO A US BASED ENGINEER 7 DAYS A WEEK

**No Glitch Switch**

FASTEST TRANSFER TIME

Free Remote Monitoring / Programming