### Solar Output Power 12000W

- **Max allowed PV DC Capacity**: 8,250W+8,250W = 16,500W
- **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 (self limiting)**: 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
- **AC Output Power 9000W On Grid & 8000W Off Grid**
  - **Connections**: 120/240/208V split phase
  - **Continuous AC power to Grid (On Grid)**: 9000W 37.5A L-L (240V)
    - 4800W 40A L-N (120V)
  - **Continuous AC power to Loads (Off Grid)**: 6000W 50A L-L (120V)
- **Surge AC power 100ms**: 16,000VA L-L (240V)
- **Parallel Stacking**: 2-8 (240V), 3-9 (208V)
- **Frequency**: 60/50Hz

### 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

### 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 integrated
- **Ground Fault Detection** – NEC 690.5 integrated
- **PV rapid shutdown control** – NEC 690.12 integrated
- **PV Arc Fault detection – NEC 690.11/UL1699B** integrated
- **PV input lightning protection** integrated
- **AC input/output 50A breakers** integrated
- **250A Battery breaker / disconnect** integrated
- **User wireing enclosure w/ 6” & 1” knock outs** integrated
- **Solar Plane TEMP Hardened to 2015 MIs: STD-461G (Independently tested June 2018)** optional

### General

- **Dimensions (H x W x D)**: 30.0” x 16.75” x 9.37”
- **Weight**: 74 lbs
- **Enclosure**: NEMA type 1 (Indoor Use)
- **Ambient Temperature (3 variable speed fans)**: -25 to 55C, >45C 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

### Additional Features

- **Solar Flare/EMP Hardened to 2015 MIL-STD-461G (Independently tested June 2018)**

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**www.Sol-Ark.com**

**Sales@Sol-Ark.com**

972-575-8875
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