

Off Grid System – 3 kW PV – 4 kW Conext SW Inverter - 19 kWh Battery System

- 10 x Heliene 60M 300W Modules (5 x 2 in series)
- MNPV6HV-DISCO 4X-PSB (Includes MNSPD-600-DC & MNDISCOPSB)
Disconnecting Combiner Box w/5 x 15A DC Fuses
50' each of AWG #10 PV Wire (Red and Black)
- Quick Mount PV Rail-Free Mounting System (for 10 modules, Portrait, Sloped Shingle Roof, 24" OC)
- 1 x MNSW4024-CL150-RSS Midnite Solar Pre-Wired Inverter Panel System w/Rapid Shutdown includes;
 - Conext SW 4000W/24V Pure Sine Inverter 120/240V w/System Control Panel (SCP)
 - Classic 150 MPPT Solar Charge Controller w/80A Input & 100A Output DC Breakers (CLASSIC 150)
 - 175A Main DC Breaker (MNEDC175RT)
 - 50A AC Bypass Breaker 2 Pole (MNEAC50-2P)
 - 2 x 30A AC Input & Output Breakers (2 pole each) (MNEAC30-2P)
 - 2 x 300V AC Surge Protection Device (Input & Output) (MNSPD-300-AC)
 - 300V DC Surge Protection Device (PV Input) (MNSPD-300-DC)
 - WhizBang Jr. Current Sense Module for DC Shunt (MNWBJR)
 - Battery Temperature Sensor (MNBTS)
 - Battery Disconnect Module for Panel System (MNBDM)
 - MNEDC5 Breaker (for MNBDM)
- 1 x Rapid Shutdown Controller (MNBIRDHOUSE1-RED or GRAY)
- 1 x Shut Off Box (MNSOB3R-2P-75A-PSB)
- 1 x Short BusBar- White for SOB (MNSBB-W)
- 1 x MNCAT5-600 Cat 5 Cable (length TBD by client)

Batteries

- 8 x 6CRP525 Crown 6V 395 A/h (L16) Flooded Deep Cycle Batteries*
 - 6 x 4/0 12" DC Series Battery Cables, UL Listed (MNXFLEX4/0-W12)
 - 2 x 4/0 24" DC Parallel Battery Cables, UL Listed (1 x MNXFLEX4/0-R24, 1 x MNXFLEX4/0-W24)
 - 2 x 4/0 60" DC Battery to Inverter Cables, UL Listed (1 x MNXFLEX4/0-W60, 1 x MNXFLEX4/0-R60)
- *Substitute 8 x 6CRV390 Crown 6V 390 A/h (L16) AGM Batteries for additional cost

System calculated for;

- Up to 4 kWh/day, 4000W continuous total load
- 3 Peak Sun Hours (lowest in December)
- 2 days autonomy
- 50% Battery DOD
- 20% Temperature Co-efficient
- 10% Inverter Efficiency Derate
- 15% Module Shading Derate
- 40% Module Derate



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MNSW2524, 4024 or 4048-CL150-RSS-REVH-1/9/17

