

Off Grid System – 900W PV - 2.5 kW Conext SW Inverter – 9.5 kWh Battery System

- 3 x Heliene 60M 300W Modules (1 x 3 in series)
- 50' each of AWG #10 PV Wire (Red and Black)
- 1 x MNPV3 3 circuit Combiner Box
- 1 x MNEPV15 15A Breaker
- Quick Mount PV Rail-Free Mounting System (for 3 modules, Portrait, Sloped Shingle Roof, 24" OC)
- 1 x MNSW2524-KID-B* Midnite Solar Pre-Wired Inverter Panel System;
 - Conext SW 2500W/24V Pure Sine Inverter 120/240V w/System Control Panel (SCP)
 - Midnite KID Solar Charge Controller w/30A Input & 30A Output DC Breakers (MNKID-B)
 - Ground Fault Protection Breaker (MNDC-GFP80)
 - 175A Main DC Breaker (MNEDC175)
 - 50A AC Bypass Breaker 2 Pole (MNEAC50-2P)
 - 2 x 30A AC Input & Output Breakers (2 pole each) (MNEAC30-2P)
 - Battery Temperature Sensor (MNBTS)

Batteries

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

System calculated for;

- Up to 1.5 kWh/day, 2500W 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-KID-B-REVI-5/27/16

