FEATRES

› Warranty: 1 Year on Batteries
  2 Years on Solar Panels and Hardware
› Solar panels are designed with heavy duty anodized frames that are capable of withstanding high wind pressure, hail and snow load.
› Solar Panels feature outstanding low light performance
› Two High Efficiency Multicrystalline Photovoltaic Solar Panels
› Weatherproof powder coated steel enclosure that meets NEMA 4X/IP65 weatherproofing standards
› Valve Regulated Sealed Lead Acid AGM Battery with great low temperature performance to -40°C
› 24 VDC Solar Charge Controller with LCD Screen, Intelligent PWM Charging Mode, Adjustable charging and discharging parameters
› 56 VDC Gigabit PoE+ Injector

› Intelligent Controller Featuring:
  • Solar Controller Diagnostics LCD Display Supporting Readout of Several Parameters Including System Charge/Discharge and Battery Voltage
  • Ampere Hours Monitoring of Accumulated Charge/Discharge
  • Intelligent PWM Charge Controller
  • Automatic Temperature Compensation
  • Adjustable Charge/Discharge Control Parameters
  • Battery Low Voltage Disconnection
  • Battery Reverse Connection Protection
  • Overload/Short Circuit Protection

APPLICATIONS

› Remote Surveillance Cameras
› Wireless Perimeter Surveillance
› Temporary Network Surveillance Deployments
› Construction Site Network Access
Solar Power Ethernet Kit for Remote Locations

30 Watts Continuous Power System with 6 Hours of Peak Sunlight

SPECIFICATIONS

Controller
- Controller Type: 12 - 24 V Solar Charge Controller
- Controller Self Consumption: < 0.5 W

IEEE 802.3at Compliant Power Injector
- Input: 24 VDC
- Output: 56 VDC @ .625 A
- Self Consumption: 1 W

Solar Panels (QTY 2)
- Maximum Power (Pmax): 120 W
- Voltage at Pmax (Vmp): 17.2 V
- Current at Pmax (Imp): 6.98 A
- Open-circuit voltage ( Voc): 21.6 V
- Short-circuit current ( Isc): 7.72 A
- Temperature coefficient of Voc: (80±10)mV/ºC
- Temperature coefficient of Isc: (0.065±0.015)%/ºC
- Temperature coefficient of power: (0.5±0.05)%/ºC
- NOCT¹: 47±2ºC
- Operating temperature: -40ºC to +85ºC
- Maximum system voltage: 1000 VDC
- Power tolerance: ±5%

Peak Sunlight
- 6 Hours
  - Battery Capacity: 110 Ah
  - Battery Voltage: 24 V
  - Reserve Time: 40 Hours²
  - PoE Output Voltage: 56 VDC
  - System Weight with Batteries³: 260 lb (118 kg)

Mechanical
- Enclosure: Powder Coated Steel
- Enclosure Size: 24 × 15 × 14 in (60.96 × 38.1 × 35.56 cm)
- Solar Panels: 2 × 120 W Solar Panels
- Solar Panel Size: 48.98 × 26.57 × 1.38 in (124.4 × 67.5 × 3.5 cm)
- Solar Panel Weight: 24.25 lb / 11 kg

Environmental
- MTBF: >100,000 hours
- Operating Temp: -30° C to +60° C
- Storage Temp: -40° C to +85° C
- Relative Humidity: 5% to 95%

Warranty
- Batteries: 1 Year
- Solar Panels & Hardware: 2 Years

[1] Nominal Operating Cell Temperature: Air 20°C; Sun 0.8kW/m²; Wind 1m/s

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>NWKSP3</td>
<td>30W continuous power solution requiring 6 hours of peak sun a day</td>
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Included Accessories
- Enclosure, Top of Pole mounting hardware for the Solar Panel, Controller, Midspan Injector and Cables

Options
- User selection of Industrially Hardened NetWave® Wireless Ethernet Units

TYPICAL APPLICATION

Legend
- WIRELESS
- CAT5
- POWER
- ETHERNET

[Diagram of typical application: Solar Panels, Controller, PoE Injector, Battery, PoE Camera, NW7, Ethernet connections]