

Solar Power Ethernet Kit for Remote Locations 30 Watts Continuous Power System with 6 Hours of Peak Sunlight

NWKSP3

803.2at

POWER

BATTERIES

INCLUDED



The NetWave® NWKSP3 Solar off the grid power system is designed for applications where a remote camera or wireless repeater is needed but power is not available or the cost to run power is too expensive. NetWave Solar is a complete system for providing remote power to edge communications equipment. The kit includes high quality photovoltaic solar panels, valve-regulated lead-acid batteries (NA only), outdoor enclosure, solar charge controller, PoE midspan injector and mounting hardware. The steel outdoor enclosure has a gasket hinged lid with two tamper proof locks operated by a special key for high security. The enclosure can be mounted on a two to four inch pole or wall mounted with the included mounting hardware. The Solar Panels include a top of pole mount requiring a 4" diameter pole. A side of pole mount is available as an optional accessory. The included 30A solar charge controller supports an LCD screen for local diagnostics and system health monitoring, Intelligent PWM charging mode and battery protection from overcharge and over discharge while the batteries provide outstanding deep cycle and cold weather performance.

FEATURES

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 (available in NA only)
- > 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

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SPECIFICATIONS

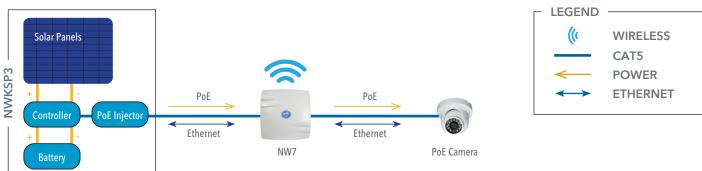
Controller

Controller		Peak Sunlight	6 Hours
Controller Type 1	12 -24 V Solar Charge Controller	Battery Capacity	110 Ah
Controller Self Consumption <	< 0.5 W	Battery Voltage	24 V
IEEE 802.3at Compliant Power Injector		Reserve Time	40 Hours ²
Input 2	24 VDC	PoE Output Voltage	56 VDC
	56 VDC @ .625 A 1 W	System Weight with Batteries ³	260 lb (118 kg)
Solar Panels (QTY 2)		Mechanical	
Maximum Power (Pmax)1Voltage at Pmax (Vmp)1Current at Pmax (Imp)6Open-circuit voltage (Voc)2Short-circuit current (Isc)7Temperature coefficient of Voc - (Temperature coefficient of Isc - (Temperature coefficient of powerNOCT14Operating temperature-4	-(0.065±0.015)%/°C	Enclosure Enclosure Size Solar Panels Solar Panel Size Solar Panel Weight Environmental MTBF Operating Temp Storage Temp Relative Humidity	Powder Coated Steel 24 × 15 × 14 in (60.96 × 38.1 × 35.56 cm) 2 × 120 W Solar Panels 48.98 × 26.57 × 1.38 in (124.4 × 67.5 × 3.5 cm) 24.25 lb / 11 kg >100,000 hours -30° C to +60° C -40° C to +85° C 5% to 95%
, ,	±5% * Cow Power Consumption	Warranty Batteries Solar Panels & Hardware [1] Nominal Operating Cell T Wind 1m/s	1 Year 2 Years Temperature: Air 20°C; Sun 0.8kW/m²;
		[2] Actual Reserve Time is condition-dependent.	

ORDERING INFORMATION

	Part Number	Description	
-	NWKSP3	KSP3 30W continuous power solution requiring 6 hours of peak sun a day. Option only available in North America.	
	NWKSP3/NB	30W continuous power solution requiring 6 hours of peak sun a day. No Battery. Option not available in North America.	
	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



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Construction