

420 Watt PAM™ Expedition



Portable Solar

Practical Solar Energy for Expeditionary and Remote Power

GREENS • Hybrid Systems • Micro-Grids • Stand Alone Power



420 Watts PAM Expedition

4 tri-fold solar panels, rollable composite stand, rugged transport case

Key Features

- Maximize energy capture - angle toward sun
- Compatible with hybrid and solar controllers
- Non-glass, anti-reflective, anti-static, low visibility front surface
- One piece fully assembled rolled stand
- Transportable – lightweight & small volume
- Durable – field demonstrated
- Modular and scalable – meets power requirements for many uses

Product Specifics

- Power 420 watts
- Voltage: ~50 volts; Current: 8.5 amps
- <44 lbs. solar array; <74 lbs. in transport case
- Case dimensions: 48" x 17" x 9" (~4 cu. ft.)
- Deployed foot print <4 ft. x 10 ft.
- 60 mph wind rating using stakes or sandbags
- Set solar angles of 0°, 30°, and 45°
- Set up or package in < 5 minutes



Packaged into rugged transport case



One piece, fully assembled rolled stand



Storage volume comparison: Current GREENS (left) vs. PAM Expedition (right)



High efficiency solar panels easily mounted onto stand

Reduce Fuel Usage • Save Lives • More Focus to the Mission

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www.nishati-us.com

Nishati™

Available *directly from Nishati™*
or *GSA Advantage (search):*
Portable Array Module



PAM Expedition



Portable Solar

- Culmination of Small Business Innovation Research (SBIR) program funded by the Department of Navy's Office of Naval Research (ONR)
- Drop in replacement for Ground Renewable Expeditionary Energy Network System (GREENS) systems
- 48 percent the weight and 32 percent the storage volume of current GREENS solar panels

General Description

Size	16.5" x 47.2" Package is 4.15 cubic feet
Solar Array Weight	<44 lbs (Array Only)
Transport Weight in case	<74 lbs (includes Transport Case & Collection Cable)
Deployment Area	<40 sq. ft.
Set-up or take-down time	<5 min
Materials	Corrosion and UV resistant
Solar Angles	0°, 35°, and 45°
Energy producing surfaces	Anti-reflective, low visibility, and Anti-dust
Solar Angles	0°, 35°, and 45°
Available Voltage	48, 24, or 12 VDC
Controller compatibility	GREENS and many others
Set-up or take-down time	<5 min
Limited Warranty	2 years, expected 10 year life

Performance

Power	420 Watts
Available Voltage	48, 24, or 12 VDC
Associated max. current	8.5, 4.3, or 2.2 Amps
Collection Cable	Custom cables: SJEOW rated, min. 300 volt capability, IP67 compliant connectors
Static Wind /	> 50 mph wind and hail impact. integrated tie down loops for stakes and sandbag straps anchor the structure
Operating / storage temperature ranges	-4° to 140° F / -25° to 160° F
Transit Drop & Loose Cargo Bounce	Accordance with MIL-STD 810G 516.6 Procedure IV – Transit Drop, with a 48 inch drop height and MIL-STD-810G, Method 514.6, Procedure II, Category 5
Quantity per Pallet / Pallet Weight	Able to stack at least 8 cases high

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