

5 to 15 Watts of Continuous 24/7 Power

Power and Charge Low-Power Systems and Military Batteries



- **Solar In**
One or more 30-watt / 15-volt Endurance™ 30 Pocket Solar Panels (PSP) for up to 90 watts of solar input
- **AC In**
Charge from 120V /60 Hz or 220V/50 Hz AC power
- **Charging + Auxiliary Power Out**
MilSpec Fast-Charge Solar /DC Battery Charger
15V / 32W continuous (50W Peak) power to radios, sensors, battery charging adapters
- **Energy Storage**
BB-2590 (baseline); charge other battery types with optional X-90 Smart Adapters

Key Features

- **Efficient** 96 - 98% Solar charging & aux power efficiency
- **Effective** High-speed maximum power point tracking delivers maximum solar charging power
- **Compact and Lightweight** 7.25" x 7.25" x 1.15" | 1.0 lb. (Solar Panel)
2.83"L x 2.0"W x 0.9"H | 0.2 lbs. (Charger)
6.4"L x 1.7"W x 1.3"H | 0.97 lbs. (AC/DC Power Supply)
- **Simple** No buttons – Connect and charge!
LCD indicates battery State of Charge, State of Health, Input Power, Time Until Charged / Discharged, and Faults
- **Robust** Reverse Polarity, Over Temp., Active Current Limiting
Wake-up mode revives depleted batteries
- **Flexible** Parallel multiple chargers from a one power source
Polarized SAE 2-pin input accepts power from included AC/DC power supply and other DC sources; Use with or without battery
Use adapters to charge many other battery types
- **Durable & Weatherproof** MIL-STD-810G and IP67 compliant



Nishati Outpost™ 5

Nishati Outpost™ 5 Specifications		
Part Number	242235	
Basic Components	(1) PN 221286 Nishati Endurance™ 30 Pocket Solar Panel (1) PN 227715 X-90 Micro Aux Portable Fast Charge Solar / DC Battery Charger (1) PN 227716 40W Constant Voltage/Constant Current AC/DC Power Supply	
Optional Items	<ul style="list-style-type: none"> • BB-2590 (225 Watt-hr) Li-ion batteries (294 Watt-hr option available) • X-90 Smart Battery Adapters (inquire on availability for specific batteries) 	
Warranty	2 years limited warranty against defective material & workmanship	
Solar Panel Description	PV cells: Mono-crystalline Silicon (mc-Si) PERC; mc-Si HIT also available Cell Quantity / Layout: 28 x ¼ cells / 4 x 7 Electrical Interconnect: Merlin™ Interconnect Power Output Connections: (1) Integrated SAE 2-pin Attachments: Braided nylon loops (Grommet options available)	
Solar Panel Power (+/- 3%) [@25°C, AM1.5, 1000W/m²]	Rated Power (P_{max})	32.5 Watts (at 25°C, AM1.5, and 1000W/m²)
	V_{mp}	15.34V
	I_{mp}	2.12A
	V_{oc}	18.08A
	I_{sc}	2.21A
Solar Panel Dimensions & Weight	Folded Dimensions	7.25"L x 7.25"W x 1.15"D (panel + JBox) / 0.70"D (panel)
	Deployed Configuration	27.56"L x 14.75"W x 0.68"D (panel + JBox) / 0.06"D (panel)
	Weight	1.0 lbs.
AC/DC Power Supply	AC Input Voltage	90 – 305VAC
	AC Input Frequency	47 – 63 Hz
	AC Input Current	0.6A / 115VAC 0.3A / 230VAC
	DC Output Voltage	24V
	DC Output Current	1.67A
	Rated Power	40W
	Connectors	NEMA 5-15 (Input) / SAE 2-pin (Output)
	Dimensions	6.4"L x 1.7"W x 1.3"D
	Weight	0.97 lbs.
	Operating Temps. (case)	-40°C to 80°C
Solar/DC Battery Charger	DC Input Power (P_i)	80W (max)
	DC Input Voltage (V_{in})	10V – 50V
	Battery Voltage (V_{batt})	10V – 20V
	Aux. Power Voltage (V_{aux})	11V – 16.8V
	Aux. Power Voltage (V_{aux})	11V – 16.8V
	Dimensions	2.83"L x 2.0"W x 0.9"D
	Weight	0.97 lbs.
	Operating Temps. (Ambient)	-30°C to 60°C
Environmental	All components IP67 (Dust proof; waterproof to 1m immersion)	

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