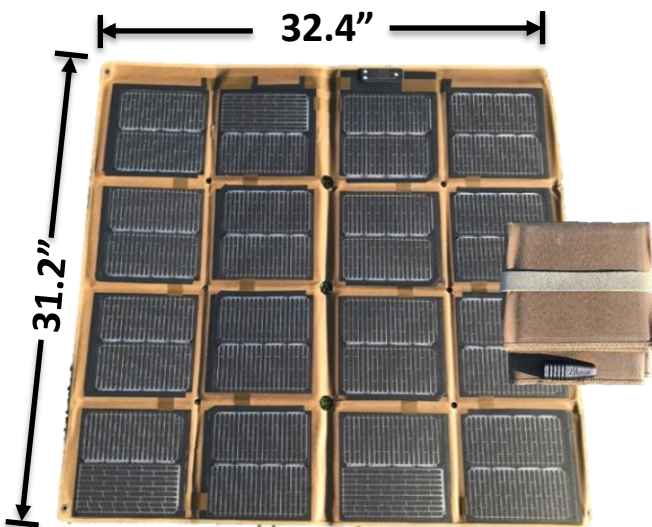


15 Watts of Continuous 24/7 Power

Power and Charge Low-Power Systems and Military Batteries



- **Solar In** | 80-watt / 17.9-volt Endurance™ 75F Compact Folding Solar Panel
- **AC In** | Charge from 120V/60 Hz or 220V/50 Hz AC



- **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 X-90 Smart Adapters

Key Features

- **Efficient** $\geq 98\%$ Solar charging and $\geq 96\%$ auxiliary power efficiency
- **Effective** High-speed maximum power point tracking delivers maximum solar charging power
- **Compact and Lightweight** 9.0"L x 8.0"W x 1.5"D | 3.7 lbs.. (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-810H and IP67 compliant

Nishati Outpost™ 15

Nishati Outpost™ 15 Specifications			
Part Number	242245		
Basic Components	(1) PN 231286 Nishati Endurance™ 75F Compact Foldable Solar Panel (1) PN 92012 X-90 Micro Aux MilSPec Power and Charging Manager (1) PN 96001 40W Constant Voltage/Constant Current AC/DC Power Supply		
Optional Items	<ul style="list-style-type: none"> • SAE 2-pin extension cables 12-in./6-ft./15-ft. standard custom lengths & Y cables • 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 28 x ¼ cells / 4 x 7 layout Electrical Interconnect: Merlin™ Interconnect Power Output Connections: (1) Integrated SAE 2-pin Finishing/Attachments: Edge-bound, (6) Grommet attachment points, Retention Strap		
Solar Panel Power	Rated Power (P_{max})	80 Watts (-0%, +3%)	At Standard Test Conditions: Cell temperature 25°C Air Mass 1.5 Solar Irradiance 1000 W/m ²
	V_{mp}	17.9V (±3%)	
	I_{mp}	4.50A (±3%)	
	V_{oc}	21.1V (±3%)	
	I_{sc}	4.57A (±3%)	
Solar Panel Dimensions & Weight	Folded Dimensions	9.0" L x 8.0" W x 1.5" D (panel + JBox)	
	Deployed Configuration	31.2" L x 32.4" W x 0.75" D (panel + JBox) / 0.12" (panel)	
	Weight	3.7 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 (Typical) / 120W (Max)	
	DC Input Voltage (V_{in})	10V – 50V	
	Battery Voltage (V_{batt})	10V – 20V	
	Aux. Power Voltage (V_{aux})	11V – 16.8V [battery required]	
	Aux. Power Current (I_{aux})	3A (continuous) / 4A (peak) [battery required]	
	Dimensions	2.83" L x 2.0" W x 0.9" D	
	Weight	0.97 lbs.	
Operating Temps. (Ambient)	-30°C to 60°C (Charging is software limited to -20°C)*		
Environmental	All components IP67 (Dust proof; waterproof to 1m immersion)		

*Charging BB-2590 below 0°C may negatively impact battery capacity and lifetime

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