



Nishati  
Power  
Technologies™

# Outpost™ 5

## Micro Uninterruptable Power Supply

### 5 to 15 Watts of Continuous 24/7 Power

**Charge BB-2590 Batteries & Power Radios, Sensors, End-User Devices**

**Solar In** | One or more 60-watt / 24.8-volt Compact Folding Solar Panels – up to 120W total

**AC In** | Charge from 120V/60 Hz or 220V/50 Hz AC power

**Charging + Auxiliary Power Out** | **New!** Outpost™ Mini Power Manager | 11-16.5V / 100W Peak power to radios, sensors, charging adapters

**Energy Storage** | BB-2590 (sold separately)



SBM 60W Solar Panel



Outpost™ Mini Power Manager



40W™ AC-DC Power Supply

**Compact and Lightweight** 11.5”L x 6.8”M x 2.75”D | 3.1 lbs. (Solar Panel)  
2.73”L x 2.54”W x 1.63”H | 0.6 lbs. (Charger)  
6.4”L x 1.7”W x 1.3”H | 0.97 lbs. (AC/DC Power Supply)

**Simple** No buttons - just connect & charge! LEDs provide system state, solar input, & fault indications

**Efficient & Effective**  $\geq 98\%$  Solar charging and  $\geq 96\%$  auxiliary power efficiency  
High-speed maximum power point tracking and parallel charging reduces charging time

**Flexible** Polarized SAE 2-pin input accepts power from solar, AC-DC power supply (included) and other DC sources  
Parallel multiple chargers from one power source and parallel auxiliary power output  
Data over RS485 connection for external battery monitoring and charger switching  
Use adapters to charge/power a variety of devices

**Robust** Reverse Polarity, Short Circuit, Over-/Under-Temperature Protections  
Wakes up/charges depleted batteries  
Charges even if battery communications fail

### Durable & Weatherproof

Designed and built to military standards | Protected against dust and water immersion (up to 1 m)



## Nishati Outpost™ 5 Specifications

<b>Part Number</b>	242235			
<b>Basic Kit Components</b>	<p>(1) SBM 60W Compact Folding Solar Panel [P/N SBMF-60W-M ]</p> <ul style="list-style-type: none"> <li>• Integrated SAE 2-pin cable (shrouded)</li> <li>• Six grommeted attachment points</li> <li>• Protected against reverse current / polarity and shading effects</li> </ul> <p>(1) Nishati Outpost™ Mini Power Manager [P/N 914001]</p> <ul style="list-style-type: none"> <li>• Solar In: 120W / 10 - 50V / SAE 2-pin</li> <li>• DC Out + Data** Interface: 100W / 6A max @11-16.5V / M12 4-pin</li> <li>• **RS485 (2-wire) Switching and Battery Data Monitoring</li> </ul> <p>(1) 40W Constant Voltage/Constant Current AC/DC Power Supply [P/N 96001]</p>			
<b>Optional Items</b>	<ul style="list-style-type: none"> <li>• 125W DC-AC pure sine wave inverter: 12V DC (SAE 2-pin) IN   120V/60Hz OUT</li> <li>• BB-2590 (225 Watt-hr) Li-ion batteries (294 Watt-hr option available)</li> <li>• SAE 2-pin extension cables   12-in./6-ft./15-ft. standard   custom lengths &amp; Y cables</li> <li>• External Battery &amp; Radio Power Adapters (inquire on specific availability)</li> </ul>			
<b>Warranty</b>	2 years limited warranty against defective material & workmanship			
<b>Solar Panel Power (+/- 3%)</b>	Rated Power (P <sub>max</sub> )	>60 Watts	<b>At Standard Test Conditions:</b> <b>Cell temperature 25°C</b> <b>Air Mass 1.5</b> <b>Solar Irradiance 1000 W/m<sup>2</sup></b>	
	V <sub>mp</sub>	24.8V		
	I <sub>mp</sub>	2.9A		
	V <sub>oc</sub>	29.0V		
	I <sub>sc</sub>	3.1A		
<b>Solar Panel Dimensions &amp; Weight</b>	Folded Dimensions	11.5" L x 6.8W x 2.75"D		
	Deployed Configuration	32" L x 23.1" W		
	Weight	3.1 lbs.		
<b>AC/DC Power Supply</b>	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		
<b>Solar/DC Battery Charger</b>	DC Input Power (P <sub>i</sub> )	120W (Max)		
	DC Input Voltage (V <sub>in</sub> )	10V – 50V		
	Battery Voltage (V <sub>batt</sub> )	10V – 20V		
	Auxiliary Power (P <sub>aux</sub> )	100W (max at 16.5V)		
	Aux. Power Voltage (V <sub>aux</sub> )	11V – 16.5V [BB-2590 battery required]		
	Aux. Power Current (I <sub>aux</sub> )	6A (continuous) / 10A (peak) [BB-2590 battery required]		
	Dimensions   Weight	2.73" L x 2.54" W x 1.63" D   0.6 lbs.		
	Ambient Operating Temp (T <sub>A</sub> )	-30°C to 60°C (Charging) / -20°C to 50°C (Discharging)*		
	Storage Temp. (T <sub>STG</sub> )	-50°C to 85°C		
<b>Environmental</b>	All components IP67 (Dust proof; waterproof to 1m immersion)			

\*Charging BB-2590 below 0°C may negatively impact battery capacity & lifetime. MPM limits charging to 2.5A <0°C<sup>2</sup>