

# Sun Bandit<sup>®</sup> AC Micro-Grid Inverter

This Sun Bandit<sup>®</sup> AC Micro-Grid Inverter has been manufactured by APS America exclusively for Sun Bandit<sup>®</sup> Solar Hybrid Energy Systems.

The Sun Bandit<sup>®</sup> AC Micro-Grid Inverter **converts the DC power** from the solar module to AC current for your off grid power solution. Each Sun Bandit<sup>®</sup> AC Micro-Grid Inverter is designed to **handle two solar modules simultaneously** (dual MPPT) and can be configured with one master and one subordinate in a circuit. The Sun Bandit<sup>®</sup> AC Micro-Grid Inverter is **designed to operate in real world conditions** in temperatures ranging from -40 °C to +65 °C. Sun Bandit<sup>®</sup> AC Micro-Grid Inverters have an **expected lifetime of over 25 years**.



- Maximum Power Output: 450W AC (from two solar modules)
- Individual MPPT for each panel
- Peak Efficiency: 92.5%
- Dimensions (WxHxD) inches: 8.75" x 6.63" x 1.19"
- Dimensions (WxHxD) mm: 222 mm x 168 mm x 30 mm
- Weight: 5.5 lbs. (2.5kg)

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## Datasheet

<b>Input Data (DC)</b>	<b>Per Module</b>	<b>Per Inverter</b>
Recommended PV Module Power Range (STC)	180-310W	360-620W
<b>MPPT Voltage Range</b>	<b>22-45V</b>	<b>22-45V</b>
Operation Voltage Range	16-45V	16-45V
<b>Maximum Input Voltage</b>	<b>55V</b>	<b>55V</b>
Startup Voltage	22V	22V
<b>Maximum Input Current</b>	<b>10.5A</b>	<b>21A</b>

## Output Data (AC)

Rated Output Power*	450W
<b>Maximum Output Current (rms)</b>	<b>5A</b>
Output Voltage/Range (rms)	20-150V
<b>Output Frequency</b>	<b>60Hz</b>
Load Resistance Range	18Ω - 22Ω
<b>Power Factor</b>	<b>&gt;0.99</b>
Total Harmonic Distortion	<3%

## Efficiency

Peak Efficiency	92.5%
Nominal MPP Tracking Efficiency	99.5%

## Mechanical Data

Operating Temperature Range (Ambient)	-40°F to +149°F (-40°C to +65°C)
<b>Operating Temperature Range (Internal)</b>	<b>-40°F to +185°F (-40°C to +85°C)</b>
Storage Temperature Range	-40°F to +185°F (-40°C to +85°C)
<b>Dimensions (WxHxD) inches</b>	<b>8.75" x 6.63" x 1.19"</b>
Dimensions (WxHxD) mm	222 mm x 168 mm x 30 mm
<b>Weight</b>	<b>5.5 lbs (2.5kg)</b>
Enclosure Rating	NEMA 3R
<b>Cooling</b>	<b>Natural Convection</b>

## Features & Compliance

Communication	Power line
<b>Safety Class Compliance</b>	<b>UL 1741</b>

\*Can be configured with up to two inverters per circuit (one master, one subordinate).

These specifications are subject to change without notice