

## Sunny Boy SB5.0-1SP-US-41 by SMA



Price: CAD \$2,399.00

**SKU:** SMASB50-1SP-US-41

**Product Categories:** [String Inverters: 3-9kW](#), [Inverters](#), [Shop](#)

**Product Tags:** [canada](#), [sb6.0-1sp-us](#), [sb6.0-1sp-us-41](#), [sma](#), [sma 6kw](#), [sma canada](#), [string inverter](#), [sunny boy 6](#), [sunny boy 6.0](#), [sunny boy canada](#)

**Product Page:**

<https://www.modernoutpost.com/product/sunny-boy-sb5-0-1sp-us-41-by-sma/>

### Product Summary

The Sunny Boy SB5.0-1SP-US-41 by SMA is an advanced grid-tie PV string inverter with features that make it the leading choice for residential and commercial solar power systems. At 5kW, it is ideally suited to solar arrays in the 5-6kW range, or in multiples. The Sunny Boy brings more value-added features to your solar installation. The innovative SPS or 'Secure Power Supply' feature provides power

from the roof to a dedicated outlet even when the system is disconnected from the grid during an outage. A practical level of back-up power security without the expense.

## Product Description

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The Sunny Boy brings more value-added features to your solar installation including...

### **ShadeFix**

SMA's outstanding ShadeFix optimization offers superior string-level optimization. No more DC optimizers! This means lower system cost, and maximum reliability.

### **SunSpec RSD**

SunSpec Certified rapid shutdown technology is the simplest way to achieve code compliance.

### **Wide MPPT Input Voltage Range**

This provides latitude for both optimization, and for array layout.

### **Triple MPPT Input**

3 strings for flexible array configurations

### **Advanced AFCI**

Compliant to new Standard UL 1699B Ed.1 for arc fault protection - delivering improved safety and reliability while allowing for automatic resetting

### **Secure Power Output**

All PV inverters must disconnect from the grid for safety during a power outage, but your Sunny Boy solar array can keep powering a dedicated outlet direct from the

inverter! A fantastic emergency back-up power option for any home. Use the outlet to directly power loads during the day such as a fridge, or use the energy to charge a battery pack like the Yeti 1500X, Yeti 3000X, or Socrates 1200 for stable power anytime, day or night!

### Sunny Boy SB5.0-1SP-US-41 Specifications

Power Output: 5.0kW

AC Voltage : 240V

DC Voltage : 600V

Peak Efficiency : 97.7%

CEC Efficiency : 97%

Maximum DC Input Voltage : 600V

Maximum Short Circuit DC Input Current : 2x18A

Maximum Operation DC Input Current : 2x10A

Number of MPPT Inputs : 2

MPP operating voltage window : 100-550V

Rated MPP voltage window for nameplate output power : 220-480V

Connectivity/Monitoring : Ethernet/WIFI

### Product Attributes

- Dimensions: 1 &times; 1 &times; 1 cm
- Weight: 20 kg