

Sun Bandit® Inverter Technical Specifications



Specifications	Omega	Omega Sun
Number of Inverters / DC Input Channels	1 / 4	2 / 8
Number of Modules per Channel	1	1
Number of Modules per Circuit	1, 2, 3 or 4	5, 6, 7 or 8
DC Input (per Channel)	Data	Data
Recommended PV Module Power Range (STC)	220 W – 430 W	220 W – 430 W
Operating Input DC Voltage Range	15 V – 58 V	15 V – 58 V
Peak Power Performance Range	30 V – 58 V	30 V – 58 V
Maximum Input DC Voltage / Current	58 V / 10.5 A	58 V / 10.5 A
Minimum Starting Voltage	20 V	20 V
AC Output (per Inverter)	Data	Data
Maximum Output Power / Rated Output	1250 W / 960 W	1250 W / 960 W
Maximum Output Current	10.5A	10.5A
Nominal Operating AC Output Voltage	20 V – 240 V, Single-Phase	20 V – 240 V, Single-Phase
Nominal Frequency	50 Hz – 60 Hz	50 Hz – 60 Hz
Load Resistance Range	12 ohm - 44 ohm	7 ohm - 25 ohm
Efficiency	Data	Data
Peak Efficiency / MPPT Tracking	96% / 99%	96% / 99%
Mechanical Data		
Ambient Temperature Range	-40° F to +149° F / -40° C to +65° C	-40° F to +149° F / -40° C to +65° C
Internal Operating Temperature Range	-40° F to +190° F / -40° C to +88° C	-40° F to +190° F / -40° C to +88° C
Dimensions w/o mounting bracket (L x H x W)	12.5" x 9.5" x 2.3" / 32 cm x 24 cm x 5.8 cm	12.5" x 9.5" x 2.3" / 32 cm x 24 cm x 5.8 cm
Weight	14.25 lbs / 6.5 kg	14.25 lbs / 6.5 kg
Cooling / Enclosure	Natural Convection, No Fan / Potted	Natural Convection, No Fan / Potted
DC / AC Wire, Connectors	DC 14 AWG Solar Wire, 42" CH 1 & 4, 12" CH 2 & 3 AC 12 AWG, Copper THHN Trunk cable wire to JBOX 102"	DC 14 AWG Solar Wire, 42" CH 1 & 4, 12" CH 2 & 3 AC 12 AWG, Copper THHN Trunk cable wire to JBOX 72", Trunk cable length between inverters 36"
Features and Compliance	Data	Data
Safety and EMC Compliance	UL1741 and IEEE1547 (E113426), CSA 107.1, FCC Part 15 Class A	UL1741 and IEEE1547 (E113426), CSA 107.1, FCC Part 15 Class A
Compatibility	60-Cell, 72-Cell and Thin Film PV Solar Panels meeting DC Input	60-Cell, 72-Cell and Thin Film PV Solar Panels meeting DC Input
DC Ground Fault Detector Interrupter (GFDI)	Built-In	Built-In
Standard Warranty	6 Years* / 1 Year	6 Years* / 1 Year
Enclosure Environmental Rating / Safety	Outdoor – NEMA 6 / Transformer Isolated Circuits	Outdoor – NEMA 6 / Transformer Isolated Circuits

* When purchased and installed with a Sun Bandit® Tank and Sun Bandit® S-100 within the United States. Information is subject to change without notice.

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