SUNPOWER

SPR-3301f-1 UNI & 3801f-1 UNI STRING INVERTERS

EXCEPTIONAL RELIABILITY AND PERFORMANCE

BENEFITS

Reliable and Robust Design
Proven record for durability and longevity

Modular and Flexible Connections
Modular nature of cabling and power areas enhance safety during wiring and installation. Removable power area simplifies servicing

Integrated DC Disconnect
Built-in DC disconnect includes a locking mechanism for enhanced safety

High Efficiency Operation
CEC efficiency of up to 96.0% and peak efficiency of up to 96.2%. High efficiency throughout entire MPP range





The SunPower 3301f-1 UNI and SPR-3801f-1 UNI inverters offer proven reliability and superior performance. Their robust and precision-designed metal housing offers UV-resistance and corrosion protection and is suited for both indoor and outdoor (NEMA 3R) applications. Both models come with a standard 10 year warranty.

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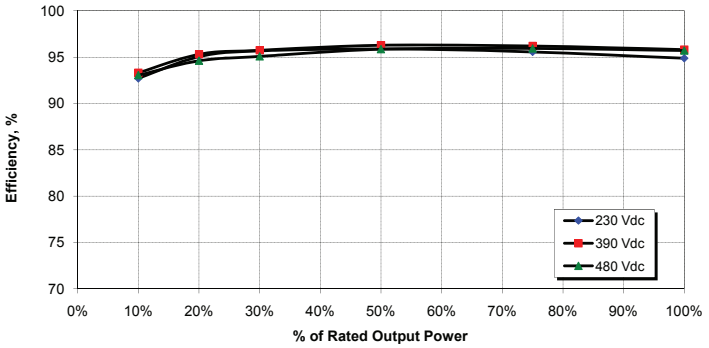
Electrical Data

		SPR-3301f-1 UNI	SPR-3801f-1 UNI
Nominal AC power	$P_{AC,nom}$	3300 W	3800 W
Nominal AC output current	$I_{AC,max}$	15.9 A @ 208 V 13.8 A @ 240 V 11.9 A @ 277 V	18.3 A @ 208 V 15.8 A @ 240 V 13.7 A @ 277 V
Voltage range at nominal AC voltage	V_{AC}	183 - 229 V (-12/+10%) @ 208 V 211 - 264 V (-12/+10%) @ 240 V 244 - 305 V (-12/+10%) @ 277 V	
AC frequency/ range	$f_{AC,nom}$	60 Hz / 59.3 - 60.5 Hz	
Power factor	cos φ	1	
Peak inverter efficiency	η_{max}	96.2%	
CEC efficiency	η_{CEC}	95.5% @ 208 V 95.5% @ 240 V 96.0% @ 277 V	95.0% @ 208 V 95.5% @ 240 V 96.0% @ 277 V
Max. DC input power	$P_{DC,max}$	3800 W	4400 W
MPP voltage range	$V_{DC,MPP}$	230 V - 500 V	
Number of MPP trackers		1	
Max. DC input voltage	$V_{DC,max}$	600 V	
Max. DC input current	$I_{DC,max}$	15.4 A	17.8 A
DC harmonic distortion		<3%	
Number of string inputs		6	
Number of phases on AC side		1	
DC disconnect		Integrated DC disconnect switch	
Grounding		Pre-configured for positive DC grounding and use with SunPower PV modules Reconfigurable in the field for negative DC grounding and use with Serengeti PV modules	
Ground fault detection		Included	
Nightime power consumption		<1.5 W	

CEC EFFICIENCY AT 95.5%



Mechanical Data

	SPR-3301f-1 UNI	SPR-3801f-1 UNI
Shipping Dimensions W x H x D	20.3" x 31.1" x 14.4"	
Unit Dimensions W x H x D	17.1" x 26.5" x 9.9"	
Unit Weight	55 lbs	
Shipping weight	59 lbs	
Topology	High frequency transformer	
Cooling	Controlled forced ventilation, variable fan speed	
Enclosure	NEMA 3R	
Mounting	Vertical wall mounting	
Ambient temperature range	-4°F to +131°F	

Warranty and Conformity to Standards

	SPR-3301f-1 UNI	SPR-3801f-1 UNI
Warranty	10 year limited warranty	
Conformity to standards	UL 1741-2010 IEEE 1547-2003 IEEE 1547.1 ANSI/IEEE C62.41 FCC Part 15 A & B NEC Article 690 C22. 2 No. 107.1-01 (September 2001)	

About SunPower

SunPower designs, manufactures, and delivers high-performance solar electric technology worldwide. Our high-efficiency solar cells generate up to 50 percent more power than conventional solar cells. Our high-performance solar panels, roof tiles, and trackers deliver significantly more energy than competing systems.

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Document # 001-64794 Rev **/ LT EN