

# SUNPOWER®

**SPR-3000p-TL-1, SPR-3600p-TL-1,  
SPR-4200p-TL-1, SPR-5000p-TL-1  
& SPR-6000p-TL-1**

## BENEFITS

### The World's Standard for Solar

High performance and high reliability inverters for use with SunPower photovoltaic panels - the most efficient and reliable panels on earth.

### High Efficiency

Transformerless inverter technology enables maximum inverter efficiency of up to 97.1% and CEC efficiency of up to 96.5%.

### Design Flexibility and Yield Maximization

Two maximum power point trackers expand deployment options and maximize energy harvest when irradiance varies across the array.

### Guaranteed Performance

Reliable and robust design has a proven record for durability and longevity.



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SPR-3000p-TL-1  
SPR-3600p-TL-1  
SPR-4200p-TL-1



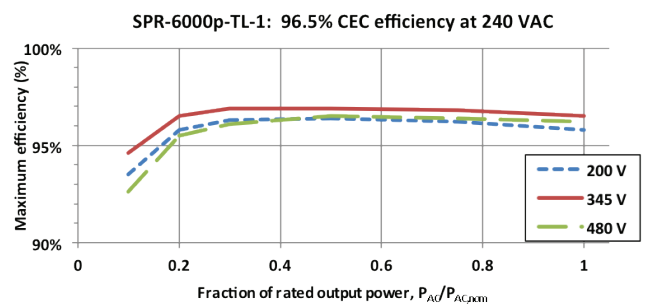
SPR-5000p-TL-1  
SPR-6000p-TL-1

The SunPower SPR-3000p-TL-1, SPR-3600p-TL-1, SPR-4200p-TL-1, SPR-5000p-TL-1 & SPR-6000p-TL-1 offer proven reliability and superior performance. Their robust and precision designed electronics housing offers UV-resistance and corrosion protection and is suited for both indoor and outdoor (NEMA 4X) applications. All models come with a standard 10 year warranty.

Electrical Data	SPR-3000p-TL-1	SPR-3600p-TL-1	SPR-4200p-TL-1	SPR-5000p-TL-1	SPR-6000p-TL-1																		
<b>Input Variables (DC)</b>																							
Max. usable power per MPPT	2000 W	3000 W	3000 W	4000 W	4000 W																		
Number of MPPTs	2																						
MPPT range	160 V ... 530 V	120 V ... 530 V	140 V ... 530 V	200 V ... 530 V	200 V ... 530 V																		
Start-up voltage	200 V (adjustable 120 V ... 350 V)																						
Open circuit voltage	600 V																						
Max. input current for both MPPTs in parallel	20.0 A	32.0 A	32.0 A	36.0 A	36.0 A																		
Max. usable current per MPPT	10.0 A	16.0 A	16.0 A	18.0 A	18.0 A																		
Number of string inputs per MPPT	1	1	1	2	2																		
<b>Output Variables (AC)</b>																							
Nominal power	3000 W	3600 W	4200 W	5000 W	6000 W																		
Max. AC output current at:	<table border="0"> <tr><td>208 V</td><td>14.5 A</td></tr> <tr><td>240 V</td><td>14.5 A</td></tr> <tr><td>277 V</td><td>12.0 A</td></tr> </table>	208 V	14.5 A	240 V	14.5 A	277 V	12.0 A	<table border="0"> <tr><td>17.2 A</td></tr> <tr><td>16.0 A</td></tr> <tr><td>16.0 A</td></tr> </table>	17.2 A	16.0 A	16.0 A	<table border="0"> <tr><td>20.0 A</td></tr> <tr><td>20.0 A</td></tr> <tr><td>20.0 A</td></tr> </table>	20.0 A	20.0 A	20.0 A	<table border="0"> <tr><td>27.0 A</td></tr> <tr><td>23.0 A</td></tr> <tr><td>20.0 A</td></tr> </table>	27.0 A	23.0 A	20.0 A	<table border="0"> <tr><td>30.0 A</td></tr> <tr><td>28.0 A</td></tr> <tr><td>24.0 A</td></tr> </table>	30.0 A	28.0 A	24.0 A
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Rated frequency	60 Hz																						
cos phi	> 0.995																						
Number of grid phases	1																						
<b>General Electrical Data</b>																							
Max. efficiency	96.9%	97.0%	97.0%	97.1%	97.1%																		
CEC efficiency at:	<table border="0"> <tr><td>208 V</td><td>96.0%</td></tr> <tr><td>240 V</td><td>96.0%</td></tr> <tr><td>277 V</td><td>96.0%</td></tr> </table>	208 V	96.0%	240 V	96.0%	277 V	96.0%	<table border="0"> <tr><td>96.0%</td></tr> <tr><td>96.0%</td></tr> <tr><td>96.0%</td></tr> </table>	96.0%	96.0%	96.0%	<table border="0"> <tr><td>96.0%</td></tr> <tr><td>96.0%</td></tr> <tr><td>96.0%</td></tr> </table>	96.0%	96.0%	96.0%	<table border="0"> <tr><td>96.0%</td></tr> <tr><td>96.5%</td></tr> <tr><td>96.5%</td></tr> </table>	96.0%	96.5%	96.5%	<table border="0"> <tr><td>96.0%</td></tr> <tr><td>96.5%</td></tr> <tr><td>96.5%</td></tr> </table>	96.0%	96.5%	96.5%
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Stand-by consumption	< 8 W																						
Switching plan	transformerless																						

Mechanical Data	SPR-3000p-TL-1 SPR-3600p-TL-1 SPR-4200p-TL-1	SPR-5000p-TL-1 SPR-6000p-TL-1
Display	16 characters x 2 lines LCD display	
Ambient temperature	-25 °C ... +60 °C * (-13 °F ... +140 °F)	
PV array isolation control	GFDI	
Connections	DC & AC: screw terminal block	
Cooling	convective cooling, no fan	
Protection class	NEMA 4X	
Noise emission	< 50 dB at 1 meter	
DC-switch	integrated	
H x W x D	859mm x 325mm x 222mm (33.8" x 12.8" x 8.7")	1052mm x 325mm x 222mm (41.4" x 12.8" x 8.7")
Weight	21.3 kg (47.3 lbs)	27.0 kg (59.5 lbs)

Features	SPR-3000p-TL-1 SPR-3600p-TL-1 SPR-4200p-TL-1	SPR-5000p-TL-1 SPR-6000p-TL-1
Warranty	10 years	
Conformity to standards	UL 1741, CSA-C22.2 N. 107.1-01, IEEE 1547, cCSA US Additional certifications are available upon request	
Interface	RS485	



\*Power derating above 55 °C (131 °F) for SPR-3000p-TL-1, SPR-3600p-TL-1 and SPR-4200p-TL-1 and above 50 °C (122 °F) for SPR-5000p-TL-1 and SPR-6000p-TL-1

### 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 and trackers deliver significantly more energy than competing systems.