



## SR4200TL

### Transformerless Inverter

*Dual MPPT*



The SRP TL Series Inverters take care of accurate power conversion from solar panels to the grid with minimum power loss and maximum reliability.

SRP Inverters combine elegant design with ease of operation. Their transformerless design and IP65 waterproof enclosures offer 96% high efficiency conversion.

#### PERFORMANCE

- High energy efficiency rating of >96%
- Modern transformerless design
- Pure Sine-wave inverter
- Low startup voltage

#### ADVANTAGES

- IP65 outdoor inverter
- Free monitoring software
- Lightweight for easy installation
- USB, RS232 and Wi-Fi Communications
- Easy to read monitoring display

#### GENERAL TECHNICAL FEATURES

- Dual Maximum Power Point Tracking (MPPT)
- Three string input, MC4 compatible
- Very low harmonic distortion, THD < 4%
- Direct mains connection
- Unlimited parallel connection arrangements
- Anti-islanding protection with auto shutdown
- Remote control system (SWS): remote communications programme
- Protection against: inverse polarisation, short-circuits, overvoltages and isolation failure

#### WARRANTIES

- Complete cover with our five-year replacement Warranty
- Extended 10-year Warranty available

All SRP inverters are backed by our unbeatable Warranties

Standard five year Warranty expandable to 10 years



[www.sunnyroopproducts.com](http://www.sunnyroopproducts.com)

### Electrical Characteristics

Nominal Output Power	4200W
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### Inverter Technology

Conversion Mode	Sine-wave, Current source, High Frequency PWM
Isolation Method	Transformerless

### DC Input

Nominal DC Voltage	360 VDC
Maximum DC Voltage	500 VDC
Working Range	120 VDC ~ 500 VDC*
Maximum DC Input Current	22 Amp
MPPT Range	150 VDC ~ 450 VDC
MPPT Tracker	2

### AC Output

Nominal AC Power	4000
Nominal AC Voltage	AC 230V
Output Connect Method	1-Phase / 2-Wires (L, N, E)
AC Voltage Range	207 Vac ~ 264 Vac
Nominal AC Current	17.4 Amp
Frequency	47 Hz ~ 50.5 Hz
Power Factor	>0.99 with nominal AC current
DC Injection	<20mA
Current Distortion	Total Harmonic Current: Less than 5% Single Harmonic Current: Less than 3%

### Efficiency

Maximum Efficiency	>96%
Euro Efficiency	>94%

### Environmental

Operating Temperature	-20°C ~ +50°C
Humidity	0% ~ 90% (without condensation)
Altitude	0M ~ 2000M / 0ft ~ 6600ft

### Mechanical Characteristics

Dimensions (L x H x D in mm)	455 x 510 x 170
Weight (kgs)	28
Protection Class	IP65, outdoor
Cooling	Free Convection
AC Connector	Terminal
DC Connector	Multi-Contact

### Communication Interface

Standard	RS232
Optional	USB, RS485, Dry contact, TCP/IP

### Protection

Utility	Over/Under Voltage, Over/Under Frequency, Ground fault, DC Isolation fault
Islanding Operation Detection	Passive: Voltage phase jump detection Active: Reactive power control

Over Temperature	Reduced output power
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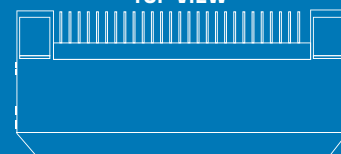
### Certification

Europe	ER G83/1, VDE0126-1-1, EN50178, IEC62103
North America	UL1741, IEEE1547
Australia	AS/NZS 3100, AS/NZS4777
EMI/EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4

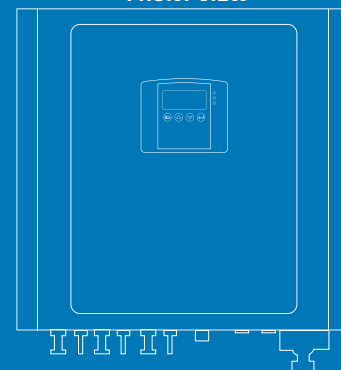
\*The rated range should be 150V<sub>DC</sub> ~ 500V<sub>DC</sub> in order to get the rated output.

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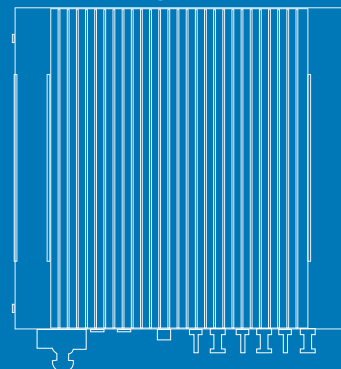
TOP VIEW



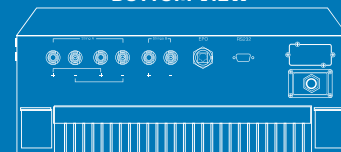
FRONT VIEW



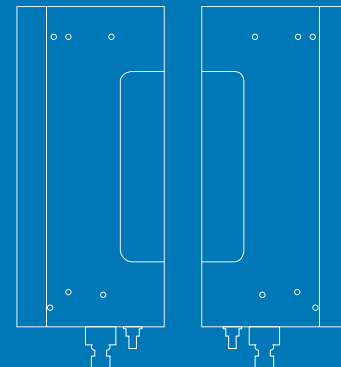
BACK VIEW



BOTTOM VIEW



SIDE VIEW



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