

**SUNNA**  
inverters

## SUNNA 1500TL Transformerless Inverter



**Sunna Inverters** deliver increased efficiency conversion due to the robust design, allowing for operation even in the most rugged Australian weather conditions. Setting new standards in inverter technology, the transformerless design provides ease of operation with its unlimited parallel connection arrangements.

**Sunna Inverters** make it easy for you to monitor performance with free monitoring software as standard and an easy to read front display monitoring unit. To further improve performance tracking there is a Remote Control System (SWS). Communications is improved even further thanks to RS-232 and USB connections. To heighten your systems performance analysis there is an optional add-on that tracks your systems operational activities in complete detail.

A **Sunna Inverter** will be a welcome addition to

any property thanks to the silent operation, low harmonic distortion and lightweight, compact size which allows for easy installation. Its range of input voltages and direct mains connection even further its connection simplicity. Equipped with anti-islanding protection, the system ensures no damage is made when power outages occur by performing an automatic shut down, essentially separating itself from any power distribution problems. With extensive protection against inverse polarisation, short-circuits and over-voltages, the system really takes care of itself.

A service life of over 20 years combined with unbeatable warranties, **Sunna Inverters** offer unlimited protection. Quality products backed by leading industry warranties, there is really nothing to worry about when you switch to Sunna.

**All Sunna inverters are backed by our unbeatable warranties**  
10 Year Warranty is Standard.

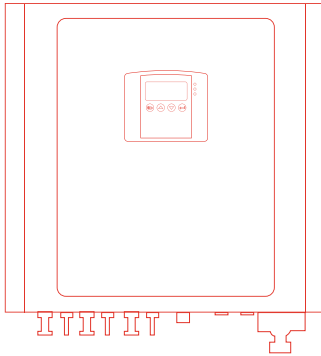


**LIGHT  
WAY**  
AUSTRALIA

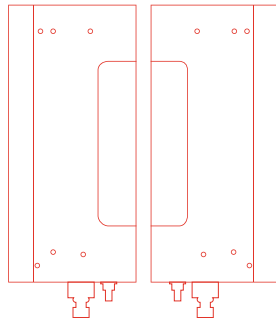
[www.sunna.com.au](http://www.sunna.com.au)

# SUNNA 1500TL Transformerless Inverter

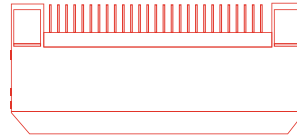
**FRONT VIEW**



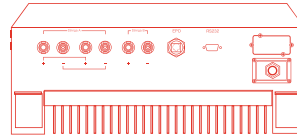
**SIDE VIEW**



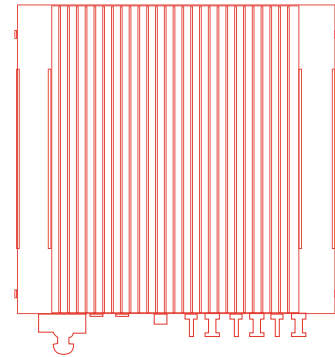
**TOP VIEW**



**BOTTOM VIEW**



**BACK VIEW**



|  |   |   |
|--|---|---|
| Inverter Technology                      | Conversion Mode   | Sine-Wave, Current Source, High Frequency PWM |
|  | Isolation Method  | Transformerless Design*                       |
| <b>DC Input Data</b>                     |   |   |
| Nominal DC Voltage                       | 360 VDC   |   |
| Max. DC Input Voltage                    | 500 VDC   |   |
| Working Range                            | 120VDC~500VDC **  |   |
| Max DC Input Current (each MPPT Tracker) | 10.5 Amp  |   |
| MPPT Range                               | 150 VDC - 450 VDC   |   |
| MPPT Tracker                             | 1   |   |
| <b>AC Output Data</b>                    |   |   |
| Nominal AC Power                         | 1500  |   |
| Nominal AC Voltage                       | AC 230V   |   |
| Output Connect Method                    | 1-Phase / 2-Wires (L,N,E)   |   |
| AC Voltage Rang                          | 207~264Vac  |   |
| Nominal AC Current                       | 6.5 Amp   |   |
| Frequency                                | 47 ~ 50.5 Hz  |   |
| Power Factor                             | >0.99 with Nominal AC Current   |   |
| DC Injection                             | < 20mA  |   |
| Current Distortion                       | Total Harmonic Current : Less than 5%,<br>Single Harmonic Current: Less than 3% |   |
| <b>Efficiency Data</b>                   |   |   |
| Max. Efficiency                          | >96%  |   |
| Euro Efficiency                          | >94%  |   |

\*If the isolation is necessary, option one extra transformer.

\*\*The rated range should be 150V DC -500V DC in order to get the rated output.

|                                   |  |  |
|-----------------------------------|--|--|
| <b>Environmental</b>              |  |  |
| Operating Temperature             | -20 °C ~ +50 °C  |  |
| Humidity                          | 0 to 90% (Without Condensation)  |  |
| Altitude                          | 0 ~ 2000 M / 0 ~ 6600 ft   |  |
| <b>Mechanical</b>                 |  |  |
| (L x H x D in mm) Dimensions      | 455 x 430 x 170  |  |
| Weight (Kgs)                      | 23   |  |
| Protection Class                  | IP65, Outdoor  |  |
| Cooling                           | Free Convection  |  |
| AC Connector                      | Terminal   |  |
| DC Connector                      | Multi-Contact  |  |
| <b>Communication</b>              |  |  |
| Communication Interface           | Standard   | RS232                                    |
|                                   | Optional   | USB, RS485, Dry Contact, TCP/IP          |
| <b>Protection</b>                 |  |  |
| Utility                           | Over/Under Voltage, Over/Under Frequency, Ground Fault, DC Isolation Fault |  |
| Islanding Operation Detection     | Passive : Voltage Phase Jump Detection<br>Active : Reactive Power Control  |  |
| Over Temperature                  | Reduced Output Power   |  |
| <b>Certification</b>              |  |  |
| Performance and Safety Compliance | 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                     |  |

[www.lightwayaustralia.com.au](http://www.lightwayaustralia.com.au)

[www.sunna.com.au](http://www.sunna.com.au)

