

Sunny Roo 5000TL

Sunny Roo Transformerless Inverter Series

Sunny Roo Inverters combine elegant design with ease of operation. With 96% High Efficiency Conversion with our transformerless design and IP65 waterproof enclosure, the Sunny Roo TL Series Inverters take care of accurate power conversion from solar panels to the grid with minimum power loss and maximum reliability.

GENERAL TECHNICAL FEATURES

- Maximum power point tracking (MPPT)
- High energy efficiency, higher than 96%
- Very low harmonic distortion, THD < 4%
- Direct mains connection
- Unlimited parallel connection arrangements
- Anti-islanding protection with automatic shut down
- Monitoring from front of the unit
- Easy installation and parameterisation
- Protection against: inverse polarisation, short-circuits, overvoltages, isolation failure
- Service life of more than 20 years
- Remote control system (SWS): remote communications programme,
- Parameter display, inverter records control, etc.

ADVANTAGES

- Range of input voltages (120-500 VDC)
- RS-485 communications included
- Parameters visualised by means of display
- Protections
- No separate Data logger required

SR 5000T

• Compact size, light weight



Modern transformerless design for low noise

CERTIFICATES

AS/NZS 3100 and As4777

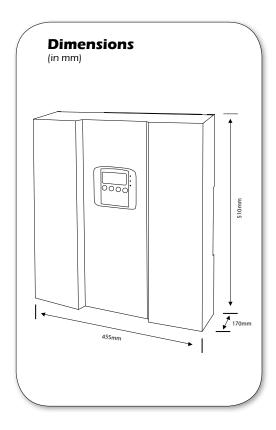
- High energy efficiency rating of 96%
- Optional additional add-ons like our exclusive EMD (Energy Management Device) to track your systems performance in detail
- Complete cover with our 5 year replacement warranty

Comprehensive Digital LCD display for quick easy operation

Specifications Sunny Roo 5000 TL Inverter Series

Electrical Characteristics

Nominal output power (1)	5KW	
System		
Conversion mode	High frequency PWM	
Isolation method	Low loss transformer (optional)	
DC Input		
Nominal DC voltage	360V	
Maximum DC voltage	500∨	
Operating range DC	120-500V	
Operating range DC for MPPT	150-450V (2)	
No. input circuits	2 (17.65A Max. x circuit)	
AC Output		
No. phases/No. wires	1-phase/2-wires or 1-phase/3-wires (LNG	
Nominal voltage AC	230V	
Nominal frequency	50 o 60 Hz	
Nominal output current AC	21.7 A	
Harmonic distortion range for nominal current	Total harmonic current	
	Partial harmonic current:	
	(at nominal output current)	
Power factor	Over 0.99 (at nominal output current)	



Effeciency	96%
Protection	
Input	Ground fault/DC isolation fault/ islanding
Output	over-undervoltage/Over-under frequnc
Protection class	IP 45
Island mode detection	
Passive method	Phase jump detection
Active method	Reactive power control
Interface	RS232 (standard) / USB / RS485 / Dry
	contact / TCP / IP (optional)

nvironmental characteristics	
Temperature	-10°C to +50°C/ -13°F to 122°F
Relative humidity	0-90% without condensation
Altitude	< 2000m
Aechanical characteristics	
Dimensions	170x455x510
Weight (kgs/lbs)	25/55
Cooling	Free convection

(1) Maximum power up to 45oC room temperature.

(2) Power derating protection at low DC input & high room temperature.

Standards And Safety
Applicable European standards
EN 61000-3-2
GS Certificate
Electromagnetic Compatibility Directive
EN 61000-6-3,4
EN 55022
Low Voltage Directive
EN 50178
IP Standard
EN 60529
Certificates
AS/NZS 3100 and As4777

