

## SRP SR2000TLI Inverter



### Electrical Characteristics

#### Input Data

Maximum Input Power	2340W
Nominal DC Voltage	360V
PV Open Voltage	500VDC
MPPT Voltage Range	200V to 450V +/-5%
System Start-up Voltage	100 +/-5%
Working Voltage Range	100 +/-5% ~ 500-5%+0%V
Initial Feeding Voltage	150V +/-5%
Full Rating Working Range	200V to 500V
Max. Input Current	10A DC
Shutdown Voltage	80V typical
DC Voltage Ripple	< 10%
DC Insulation Resistance	> 8M ohm
DC Switch	On/Off 20A

#### Output Data

Nominal Output Power	2000W
Maximum Output Power (The time is limited to 10 minutes @ 50°C ambient)	2200W
Operational Normal Voltage	230 Vac
Operational Frequency Range	50/60Hz, auto selection 47.5≤f50≤50.2 for 50Hz 59.3≤f60≤60.5 for 60Hz
Nominal Output Current	8.7A
Power Factor	> 0.99
DC Current Injection	< 20mA

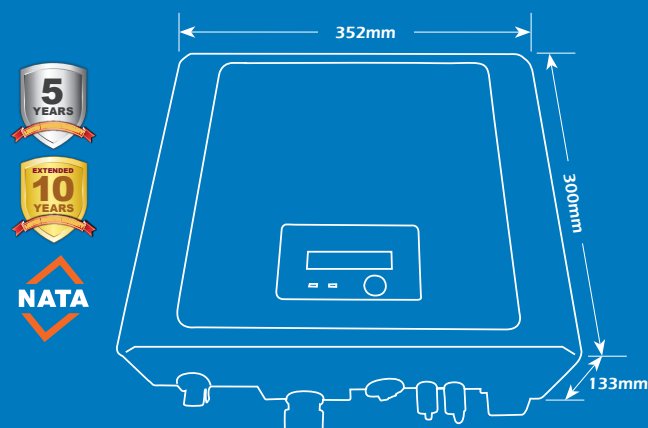
#### General Data

Internal Power Consumption	< 7W
Standby Power (at night)	< 0.1W
Minimum Conversion Efficiency (DC/AC)	>90% Under input voltage>210V, load >20%
Maximum Conversion Efficiency (DC/AC)	>95%
Protection Degree	IP 65
Operation Temperature	-20 to 55°C
Humidity	0 to 100%, non-condensing
Heat Dissipation	Convection

#### Standards and Certificates

Australia / NZ	AS4777, CE
Europe	VDE, CE, GS
UK	G83, CE
Italy	ENEL DK5940 Ed. 2.2, CE
USA, Canada	ETL listed, CE

Loading Capacity 20'GP (Pcs)	336
Loading Capacity 40'GP (Pcs)	700



## SRP SR3000TLI Inverter



### Electrical Characteristics

#### Input Data

Maximum Input Power	3510W
Nominal DC Voltage	360V~400V
PV Open Voltage	500VDC
MPPT Voltage Range	200V to 450V +/-5%
System Start-up Voltage	100 +/-5%
Working Voltage Range	100 +/-5% ~ 500-5%+0%V
Initial Feeding Voltage	150V +/-5%
Full Rating Working Range	200V to 500V
Max. Input Current	15.2A DC
Shutdown Voltage	80V typical
DC Voltage Ripple	< 10%
DC Insulation Resistance	> 8M ohm
DC Switch	On/Off 20A

#### Output Data

Nominal Output Power	3000W
Maximum Output Power (The time is limited to 10 minutes @ 50°C ambient)	3300W
Operational Normal Voltage	230 Vac
Operational Frequency Range	50/60Hz, auto selection 47.5≤f50≤50.2 for 50Hz 59.3≤f60≤60.5 for 60Hz
Nominal Output Current	13A
Power Factor	> 0.99
DC Current Injection	< 20mA

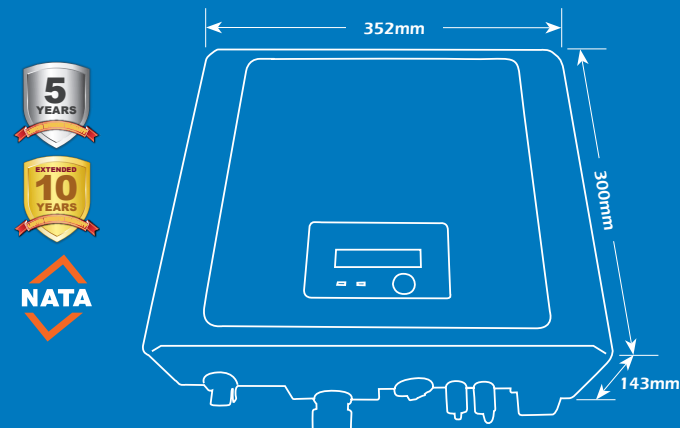
#### General Data

Internal Power Consumption	< 7W
Standby Power (at night)	< 0.1W
Minimum Conversion Efficiency (DC/AC)	>90% Under input voltage>210V, load >20%
Maximum Conversion Efficiency (DC/AC)	>95%
Protection Degree	IP 65
Operation Temperature	-20 to 55°C
Humidity	0 to 100%, non-condensing
Heat Dissipation	Convection

#### Standards and Certificates

Australia / NZ	AS4777, CE
Europe	VDE, CE, GS
UK	G83, CE
Italy	ENEL DK5940 Ed. 2.2, CE
USA, Canada	ETL listed, CE

Loading Capacity 20'GP (Pcs)	336
Loading Capacity 40'GP (Pcs)	700



## SRP SR4000TLI Inverter



### Electrical Characteristics

#### Input Data

Maximum Input Power	4680W
Nominal DC Voltage	360V
PV Open Voltage	500VDC
MPPT Voltage Range	250V to 450V +/-5%
System Start-up Voltage	100 +/-5%
Working Voltage Range	100 +/-5% ~ 500-5%+0%V
Initial Feeding Voltage	150V +/-5%
Full Rating Working Range	250V to 500V
Max. Input Current	20A DC
Shutdown Voltage	80V typical
DC Voltage Ripple	< 10%
DC Insulation Resistance	> 8M ohm
DC Switch	On/Off 20A

#### Output Data

Nominal Output Power	4000W
Maximum Output Power (The time is limited to 10 minutes @ 50°C ambient)	4400W
Operational Normal Voltage	230 Vac
Operational Frequency Range	50/60Hz, auto selection 47.5≤f50≤50.2 for 50Hz 59.3≤f60≤60.5 for 60Hz
Nominal Output Current	17.4A
Power Factor	> 0.99
DC Current Injection	< 20mA

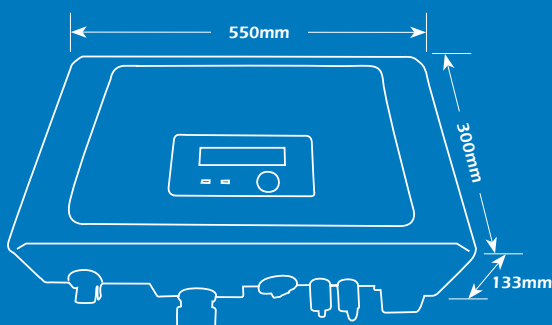
#### General Data

Internal Power Consumption	< 7W
Standby Power (at night)	< 0.1W
Minimum Conversion Efficiency (DC/AC)	>90% Under input voltage>210V, load >20%
Maximum Conversion Efficiency (DC/AC)	>96%
Protection Degree	IP 65
Operation Temperature	-20 to 55°C
Humidity	0 to 100%, non-condensing
Heat Dissipation	Convection

#### Standards and Certificates

Australia / NZ	AS4777, CE
Europe	VDE, CE, GS
UK	G83, CE
Italy	ENEL DK5940 Ed. 2.2, CE
USA, Canada	ETL listed, CE

Loading Capacity 20'GP (Pcs)	280
Loading Capacity 40'GP (Pcs)	588



\* Please visit our website for current and detailed specifications.

## SRP SR6000TLI Inverter



### Electrical Characteristics

#### Input Data

Maximum Input Power	6500W
Nominal DC Voltage	360V~400V
PV Open Voltage	600VDC
MPPT Voltage Range	150V to 600V +/-5%
System Start-up Voltage	100 +/-5%
Working Voltage Range	100 +/-5% ~ 600-5%+0%V
Initial Feeding Voltage	150V +/-5%
Full Rating Working Range	250V to 600V
Max. Input Current	25A DC
Shutdown Voltage	80V typical
DC Voltage Ripple	< 10%
DC Insulation Resistance	> 8M ohm
DC Switch	On/Off 30A

#### Output Data

Nominal Output Power	6000W
Maximum Output Power (The time is limited to 10 minutes @ 50°C ambient)	6000W
Operational Normal Voltage	230 Vac
Operational Frequency Range	50/60Hz, auto selection 47.5≤f50≤50.2 for 50Hz 59.3≤f60≤60.5 for 60Hz
Nominal Output Current	26.1A
Power Factor	> 0.99
DC Current Injection	<0.5% of rated inverter output current

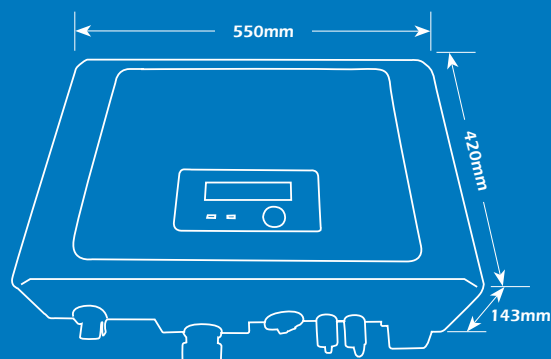
#### General Data

Internal Power Consumption	< 10W
Standby Power (at night)	< 0.1W
Minimum Conversion Efficiency (DC/AC)	>90% Under input voltage>210V, load >20%
Maximum Conversion Efficiency (DC/AC)	>96%
Protection Degree	IP 65
Operation Temperature	-20 to 55°C
Humidity	0 to 95%, non-condensing
Heat Dissipation	Convection

#### Standards and Certificates

Australia / NZ	AS4777, CE
Europe	VDE, CE, GS
UK	G83, CE
Italy	ENEL DK5940 Ed. 2.2, CE
USA, Canada	ETL listed, CE

Loading Capacity 20'GP (Pcs)	210
Loading Capacity 40'GP (Pcs)	420



## SRP SR2000TL Inverter



### Electrical Characteristics

Sunny Roo Products 2 kVA  
(1 phase) TL

Nominal Output Power	2kW
System Conversion Mode	Sine-wave, Current source, High frequency PWM
Isolation Method	Transformer-less Design*

### DC Input

Nominal DC Voltage	360 VDC
Maximum DC Voltage	500 VDC
Operating Range DC	120 - 500 VDC**
Operating Range DC for MPPT	150 VDC - 450 VDC
No. Input Circuits	14.6

### AC Output

No. Phases/No. Wires	1-phase/2-wires (L, N, E)
Nominal AC Voltage	230V
Nominal Frequency	47 - 50.5 Hz
Nominal Output Current AC	8.7
Harmonic Distortion Range for Nominal Current	Total Harmonic current : Less than 5% Single Harmonic current : Less than 3%

Power Factor	Over 0.99 (at nominal output current)
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Efficiency	> 96%
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### Protection

Input	Ground fault/DC isolation fault/Islanding
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Output	Over-under Voltage/ Over-under Frequency
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Protection Class	IP 65, Outdoor
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### Island Mode Detection

Passive Method	Phase Jump Detection
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Active Method	Reactive Power Control
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Interface	RS232 (standard), USB, RS485, Dry Contact, TCP/ IP (optional)
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### Environmental characteristics

Temperature	-20°C to +50°C/ -13°F to 122°F
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Humidity	0-90% Without Condensation
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Altitude	0 - 2000 M / 0 - 6600 ft
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### Mechanical Characteristics

Dimensions (H x W x D)	455 x 430 x 170
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Weight (kgs/lbs)	23
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Cooling	Free Convection
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### Standards and Certificates

Australia / NZ	AS/NZS 4777 and AS/NZS 3100
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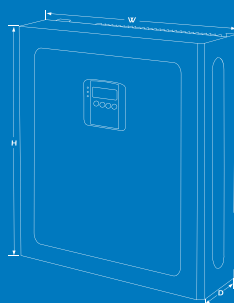
Europe	VDE, CE, GS
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UK	G83, CE
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Italy	ENEL DK5940 Ed. 2.2, CE
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Loading Capacity 20'GP (Pcs)	180
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Loading Capacity 40'GP (Pcs)	360
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## SRP SR3000TL Inverter



### Electrical Characteristics

Sunny Roo Products 2 kVA  
(1 phase) TL

Nominal Output Power	3kW
System Conversion Mode	Sine-wave, Current source, High frequency PWM
Isolation Method	Transformer-less Design*

### DC Input

Nominal DC Voltage	360 VDC
Maximum DC Voltage	500 VDC
Operating Range DC	120 - 500 VDC**
Operating Range DC for MPPT	150 VDC - 450 VDC
No. Input Circuits	22

### AC Output

No. Phases/No. Wires	1-phase/2-wires (L, N, E)
Nominal AC Voltage	230V
Nominal Frequency	47 - 50.5 Hz
Nominal Output Current AC	13
Harmonic Distortion Range for Nominal Current	Total Harmonic current : Less than 5% Single Harmonic current : Less than 3%

Power Factor	Over 0.99 (at nominal output current)
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Efficiency	> 96%
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### Protection

Input	Ground fault/DC isolation fault/Islanding
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Output	Over-under Voltage/ Over-under Frequency
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Protection Class	IP 65, Outdoor
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### Island Mode Detection

Passive Method	Phase Jump Detection
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Active Method	Reactive Power Control
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Interface	RS232 (standard), USB, RS485, Dry Contact, TCP/ IP (optional)
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### Environmental characteristics

Temperature	-20°C to +50°C/ -13°F to 122°F
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Humidity	0-90% Without Condensation
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Altitude	0 - 2000 M / 0 - 6600 ft
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### Mechanical Characteristics

Dimensions (H x W x D)	455 x 430 x 170
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Weight (kgs/lbs)	23
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Cooling	Free Convection
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### Standards and Certificates

Australia / NZ	AS/NZS 4777 and AS/NZS 3100
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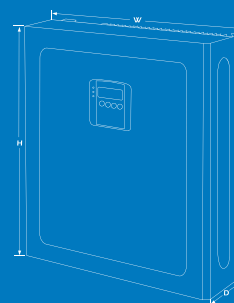
Europe	VDE, CE, GS
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UK	G83, CE
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Italy	ENEL DK5940 Ed. 2.2, CE
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Loading Capacity 20'GP (Pcs)	180
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Loading Capacity 40'GP (Pcs)	360
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\* Please visit our website for current and detailed specifications.

## SRP SR4200TL Inverter



### Electrical Characteristics

Sunny Roo Products 2 kVA  
(1 phase) TL

Nominal Output Power	4kW
System Conversion Mode	Sine-wave, Current source, High frequency PWM
Isolation Method	Transformer-less Design*

### DC Input

Nominal DC Voltage	360 VDC
Maximum DC Voltage	500 VDC
Operating Range DC	120 - 500 VDC**
Operating Range DC for MPPT	150 VDC - 450 VDC
No. Input Circuits	14.7

### AC Output

No. Phases/No. Wires	1-phase/2-wires (L, N, E)
Nominal AC Voltage	230V
Nominal Frequency	47 - 50.5 Hz
Nominal Output Current AC	17.4
Harmonic Distortion Range for Nominal Current	Total Harmonic current : Less than 5% Single Harmonic current : Less than 3%

Power Factor	Over 0.99 (at nominal output current)
Efficiency	> 96%

### Protection

Input	Ground fault/DC isolation fault/Islanding
Output	Over-under Voltage/Over-under Frequency
Protection Class	IP 65, Outdoor

### Island Mode Detection

Passive Method	Phase Jump Detection
Active Method	Reactive Power Control
Interface	RS232 (standard), USB, RS485, Dry Contact, TCP/ IP (optional)

### Environmental characteristics

Temperature	-20°C to +50°C/ -13°F to 122°F
Humidity	0-90% Without Condensation
Altitude	0 - 2000 M / 0 - 6600 ft

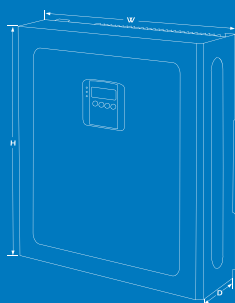
### Mechanical Characteristics

Dimensions (H x W x D)	455 x 510 x 170
Weight (kgs/lbs)	28
Cooling	Free Convection

### Standards and Certificates

Australia / NZ	AS/NZS 4777 and AS/NZS 3100
Europe	VDE, CE, GS
UK	G83, CE
Italy	ENEL DK5940 Ed. 2.2, CE

Loading Capacity 20'GP (Pcs)	180
Loading Capacity 40'GP (Pcs)	360



## SRP SR5000TL Inverter



### Electrical Characteristics

Sunny Roo Products 2 kVA  
(1 phase) TL

Nominal Output Power	5kW
System Conversion Mode	Sine-wave, Current source, High frequency PWM
Isolation Method	Transformer-less Design*

### DC Input

Nominal DC Voltage	360 VDC
Maximum DC Voltage	500 VDC
Operating Range DC	120 VDC-500 VDC
Operating Range DC for MPPT	150 VDC - 450 VDC
No. Input Circuits	18.3

### AC Output

No. Phases/No. Wires	1-phase/2-wires (L, N, E)
Nominal AC Voltage	230V
Nominal Frequency	47 - 50.5 Hz
Nominal Output Current AC	21.7
Harmonic Distortion Range for Nominal Current	Total Harmonic current : Less than 5% Single Harmonic current : Less than 3%

Power Factor	Over 0.99 (at nominal output current)
Efficiency	> 96%

### Protection

Input	Ground fault/DC isolation fault/Islanding
Output	Over-under Voltage/Over-under Frequency
Protection Class	IP 65, Outdoor

### Island Mode Detection

Passive Method	Phase Jump Detection
Active Method	Reactive Power Control
Interface	RS232 (standard), USB, RS485, Dry Contact, TCP/ IP (optional)

### Environmental characteristics

Temperature	-20°C to +50°C/ -13°F to 122°F
Humidity	0-90% Without Condensation
Altitude	0 - 2000 M / 0 - 6600 ft

### Mechanical Characteristics

Dimensions (H x W x D)	455 x 510 x 170
Weight (kgs/lbs)	28
Cooling	Free Convection

### Standards and Certificates

Australia / NZ	AS/NZS 4777 and AS/NZS 3100
Europe	VDE, CE, GS
UK	G83, CE
Italy	ENEL DK5940 Ed. 2.2, CE

Loading Capacity 20'GP (Pcs)	180
Loading Capacity 40'GP (Pcs)	360

