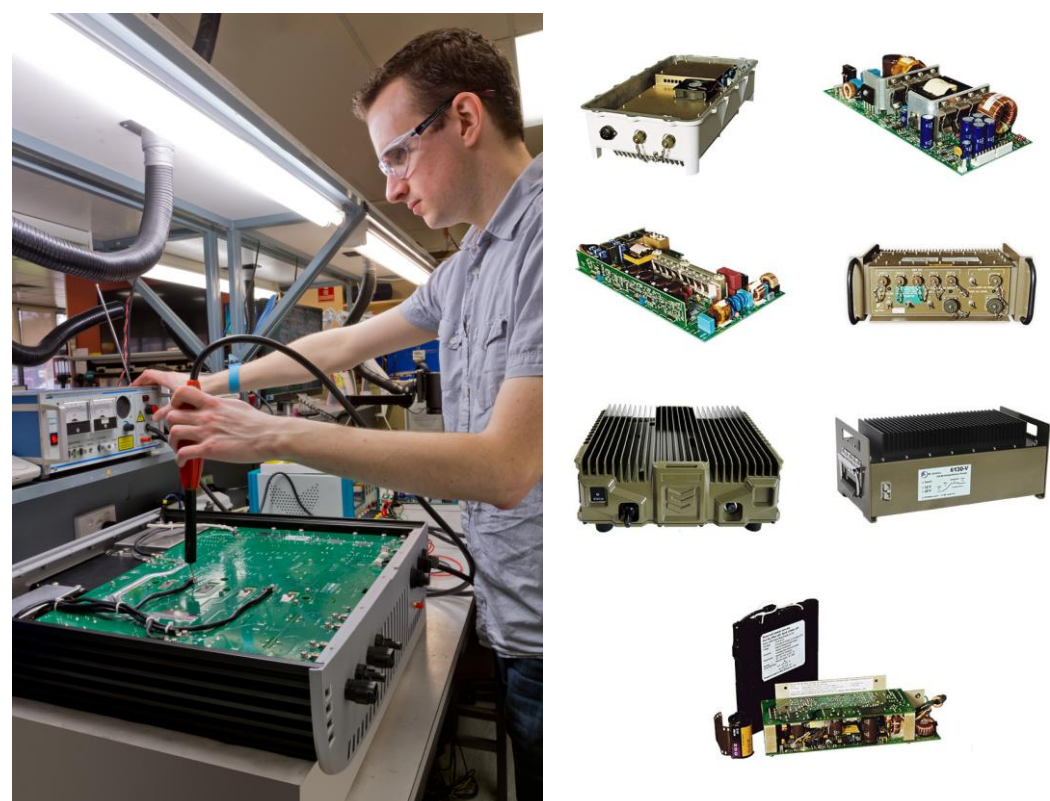


About MILSolar Eclipse Inverters

Local design for Australian conditions and long lasting product quality are two of the keys to success of Melbourne power electronics manufacturer, MIL-Systems Pty Ltd that designs and makes MILSolar brand inverters for the Australian solar PV market.

MILSolar employs around 20 people in design and construction of solar inverters that are priced to compete with the top European brands. The company has been operating for over 30 years creating electrical power equipment for the Australian Defence Forces and broader communications industry.



How to buy Eclipse Inverters

Eclipse Inverters must be installed by companies registered with the Australian Clean Energy Council and approved for trading in STCs. MILSolar can provide you with contact details for accredited installer companies that would be happy to provide a quotation for your proposed installation including the supply of an Eclipse Inverter.

MILSolar Sales and Engineering Support
Mr Geoff Lowe, MIL-Solar
34 Roberts St, West Footscray Australia +61 3 9325 3455
www.mil-solar.com.au info@mil-solar.com.au

ECLIPSE 5000-II with Reactive Power Control and optional *MyPower* monitoring



**Wide ranging dual MPPT provides maximum installation flexibility.
With the Safety and Reactive Power Control features for Solar Victoria Rebates.**

| High Solar yield | System Safety Protection | Appearance | Communications |
|---|---|--|--|
| <ul style="list-style-type: none"> Reactive Power Control for continued solar generation and export when grid voltage is high Dual Maximum power point tracking PV inputs Harvest sun all day – East to West | <ul style="list-style-type: none"> Designed and built in Australia to the new Safety & Installation standards for Solar Vic Rebates. Inbuilt RCD – system wide earth fault detection Solar Panel isolation monitoring Wiring and isolator fault detection | <ul style="list-style-type: none"> Elegant styling with minimized status display Low profile to wall Low impact design - better blending with various house architectures Front facing cooling fins for ease of cleaning | <ul style="list-style-type: none"> WiFi communications as standard on all models Inbuilt Browser interface to any networked device – PC, Tablet, Smart phone Inbuilt option to upload solar information to PVOoutput.org |

ECLIPSE 5000-II with Reactive Power Control

Unique robust technology. Designed for the extreme Australian Grid conditions and harsh environment.

The latest Eclipse Solar Inverter is the ideal solution for maximising solar power output utilizing Reactive Power Control output to the grid and with two fully independent PV panel array input controls. Dual MPPT maximises power harvest from East, North and West PV arrays simultaneously. The Reactive Power Control maximizes power fed into the grid by keeping the inverter connected and outputting where other technology inverters have to drop out. With an Eclipse inverter you won't miss out on the opportunity to install solar and maximise your electricity production.

ECLIPSE 4950-II /5000-II with dual MMPT PV Input

Export Limit option available all models

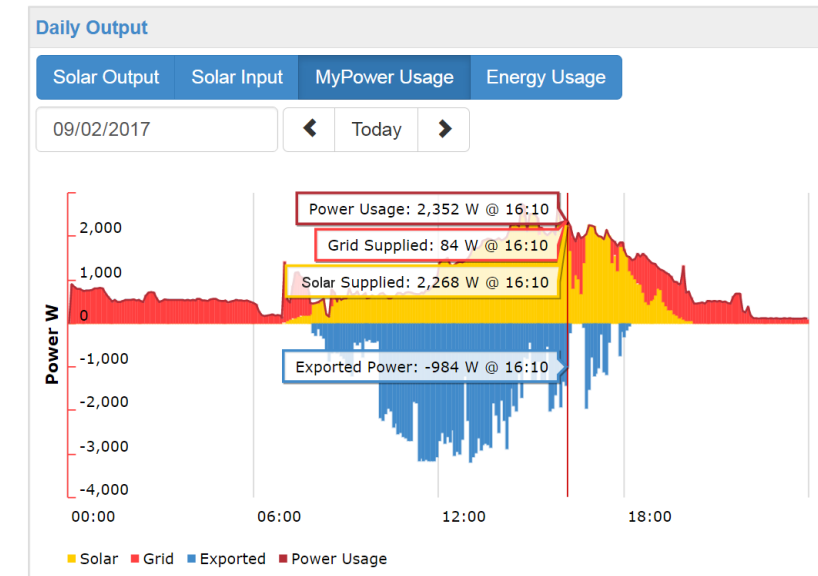
| Technical data | Eclipse 4950-II | Eclipse 5000-II |
|---|---|---------------------------|
| Input (DC) | | |
| Maximum input voltage | 750 V | 750 V |
| Minimum input voltage – ON | 80 V | 80 V |
| MPPT operating range | 90 V ... 600 V | 90 V ... 600 V |
| Number of independent MPPT channels | 2 | 2 |
| Maximum operating input current | 12 A / 12 A | 12 A / 12 A |
| I _{sc} PV - Maximum input short circuit current. | 15 A / 15 A | 15 A / 15 A |
| Output (AC) | | |
| Rated power (Maximum at Unity power factor) | 4950 W | 5000 W |
| Rated power conditions | 230 V, 50 Hz | 230 V, 50 Hz |
| Maximum AC VA (250V AC) | 4950 VA | 5000 VA |
| Nominal AC voltage | 230 V | 230 V |
| Maximum AC withstand voltage | 300 V | 300 V |
| Nominal AC frequency / range | 50 Hz ± 5 Hz | 50 Hz ± 5 Hz |
| Max. output current | 21.5 A | 21.7 A |
| Power factor at rated power | 1 | 1 |
| Reactive Power Control | YES | YES |
| Variable Power factor - leading/lagging | ±0.8 | ±0.8 |
| AC mains connection phases | 1 Φ | 1 Φ |
| Efficiency | | |
| Maximum efficiency / European efficiency | 97 % / 96.3 % | 97 % / 96.3 % |
| Protection systems | | |
| Anti-Islanding IEC62116 | YES | YES |
| PV panel fault – Array isolation | YES | YES |
| Ground fault monitoring | YES | YES |
| DC reverse polarity – PV panel miswired | YES | YES |
| AC short-circuit current protection | YES | YES |
| AC miswired | YES | YES |
| 'Safety switch' – Residual current monitoring | YES | YES |
| Protection class (IEC 62103) | I | I |
| Overvoltage category (IEC 60664-1) | AC Output - III, Solar PV inputs - II | |
| Environment | | |
| Dimensions (H / W / D) | 514 / 512 / 150 mm | |
| Weight | 24 kg | 24 kg |
| Operating temperature range | -25°C to +50°C | -25°C to +50°C |
| Relative humidity | 4 % to 100 % (condensing) | 4 % to 100 % (condensing) |
| Noise emission (typical) | 25 dB(A) | 25 dB(A) |
| Standby consumption (overnight) | 1 W | 1 W |
| Topology | Transformerless. Non galvanically isolated. | |
| Cooling method | Convection | Convection |
| Degree of protection (AS/IEC 60529) | IP44 | IP44 |
| Altitude (maximum operating) | 2000 m | 2000 m |
| Maximum relative humidity (non-condensing) | 100 % | 100 % |
| Installation location | Outdoor. Sheltered from direct sun and rain. | |
| Standard DC connections | MC4 | MC4 |
| Standard AC connections | RST25i35 equivalent | RST25i35 equivalent |
| Features | | |
| Display - Status / Information | LED / Browser | LED / Browser |
| WiFi Ethernet interface | YES | YES |
| Export Limit functionality (inc Power Meter) | Optional | Optional |
| MyPower, generation, consumption & export | Optional | Optional |
| Alarm output relay | YES | YES |
| DRED control | DRM 0 | DRM 0 |
| Power Quality modes | Fixed Power Factor, Volt-Watt, Volt-VAR | |
| Warranty | Standard - 5 Year | |
| Warranty - extended | Optional - 10 Years | |
| Standards and approvals | | |
| | AS 4777.2(2015), IEC62116, AS/NZS 3100, AS/NZS60950, IEC 62109.1 & .2, AS/NZS 61000.6.3, AS/IEC 60529 | |
| Yes | Included as standard feature on Eclipse models | |
| Option | Refer to your distributor for options and pricing | |

Option – MyPower Usage

ECLIPSE xxxx-II-1P/3P

Third party compliance accredited to Powercor/CityPower requirements for export limit control.

Smart phone display



All Eclipse models with optional MyPower feature are supplied with a power usage sensor.

Single phase - 80A
Three phase – 100A



| | |
|-------------------------|-----------------|
| Solar Power Generation | 5,156 W |
| House Power Consumption | 4,310 W |
| Grid Power | Exporting 846 W |

Models fitted with the MyPower option provides users with their total power use information, both displayed and logged.

Ideal for monitoring and managing your power savings.

Standard Browser display interface



www.pvoutput.org

Automatic uploading* of data to independent global logging site for comparing and monitoring of live solar photovoltaic power and energy performance. Apps available for many mobile devices providing live information monitoring any time, any place.

*When the Eclipse is connected to the internet via WiFi

www.mil-solar.com.au

