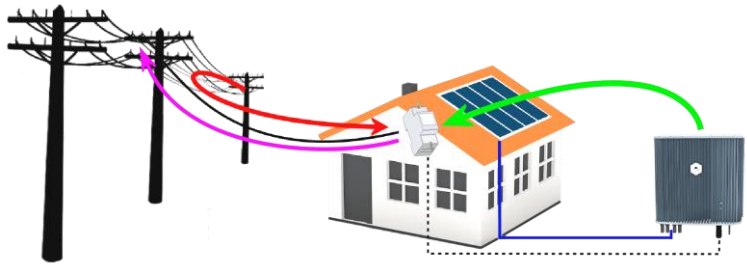


Export Limit option – My Power Usage

ECLIPSE xxxx-II-Exp

Third party compliance accredited to Powercor/CityPower requirements.



All Eclipse Export Limit models are supplied with a power usage sensor. (80A max)



Export Limit models provide users with total power usage information. Both displayed and logged.

Ideal for monitoring and managing power savings.

Solar Power	3456 W
My Power Usage	4560 W

Standard Browser display interface



MIL-Solar

ECLIPSE Inverter with all new Reactive Power Control 3kW to 5kW

with My Power monitoring and display option



Wide ranging dual MPPT gives maximum installation flexibility. Latest Australian Standards Power Quality modes meeting all utility requirements.

- | | | | |
|---|---|---|---|
| <p>High Solar yield</p> <ul style="list-style-type: none"> • Dual Maximum power point tracking PV inputs • Harvest sun all day – East to West • Extended generating period - Early On, Late Off • Reactive Power Control for highest daily yield | <p>System Safety Protection</p> <p>Designed and built in Australia to the new Safety & Installation standards</p> <ul style="list-style-type: none"> • Inbuilt RCD – system wide earth fault detection • Solar Panel isolation monitoring • Wiring and isolator fault detection | <p>Appearance</p> <ul style="list-style-type: none"> • Low profile to wall • Low impact design - better blending with various house architectures • Elegant styling with minimised status display • Front facing cooling fins for ease of cleaning | <p>Communications</p> <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 PVOutput.org |
|---|---|---|---|

ECLIPSE 3000 / 4000 / 4600 / 4950 / 5000 with Reactive Power Control

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

The latest Eclipse RPC 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 all new Reactive Power Control maximises power fed into the grid by keeping the inverter connected and outputting where other technology inverters have to drop out. With an Eclipse RPC inverter you won't miss out on the opportunity to install solar and maximise your electricity production.

PVOutput
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 Eclipse is connected to a home/office network with Internet access



www.mil-systems.com.au/products_ms_solar

ECLIPSE 3000-II / 4000-II with dual MMPT PV Input

Export Limit option available all models

Technical data	Eclipse 3000-II	Eclipse 4000-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)	2950 W	4000 W
Rated power conditions	230 V, 50 Hz	230 V, 50 Hz
Maximum AC VA (250V AC)	2950 VA	4000 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
Maximum output current	13 A	17.5 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 weighted efficiency	97 % / 96 %	97 % / 96.3 %
Protection systems		
PV panel fault – Array isolation	YES	YES
Ground fault monitoring	YES	YES
DC reverse polarity protection – PV panel miswired	YES	YES
AC short-circuit current protection	YES	YES
AC miswired	YES	YES
‘Safety switch’ – Residual current monitoring unit	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)	520 / 510 / 185 mm	
Weight	23 kg	23 kg
Operating temperature range	-25°C to +50°C	-25°C to +50°C
Relative humidity	4 % to 100 % (condensing)	
Noise emission (typical)	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	Phoenix SUNCLIX	Phoenix SUNCLIX
Standard AC connections	Wieland <i>gesis</i> ®	Wieland <i>gesis</i> ®
Features		
Display – Status / Information	LED / Browser	LED / Browser
WiFi Ethernet interface	YES	YES
Export Limit functionality (inc Power Meter)	Optional	Optional
Ethernet wired RJ485 interface	Optional	Optional
Alarm output relay	YES	YES
DRED control	DRM 0	DRM 0
Warranty	Standard 5 Year	
Warranty – extended	Optional : 10 / 15 / 20 years	
Standards and approvals		
	AS 4777.2(2015), ASNZS 3100, AS/NZS60950, IEC 62109.1 & .2, AS/NZS 61000.6.3, AS/IEC 60529	
YES	Included as standard feature on Eclipse model	
Optional	Refer sales representative for options	

Eclipse 4600-II /4950-II /5000-II with dual MMPT PV Input

Export Limit option available all models

Technical data	Eclipse 4600-II	Eclipse 4950-II	Eclipse 5000-II
Input (DC)			
Maximum input voltage	750 V	750 V	750 V
Minimum input voltage – ON	80 V	80 V	80 V
MPPT operating range	90 V ... 600 V	90 V ... 600 V	90 V ... 600 V
Number of independent MPPT channels	2	2	2
Maximum operating input current	12 A / 12 A	12 A / 12 A	12 A / 12 A
I _{sc} PV - Maximum input short circuit current.	15 A / 15 A	15 A / 15 A	15 A / 15 A
Output (AC)			
Rated power (Maximum at Unity power factor)	4600 W	4950 W	5000 W
Rated power conditions	230 V, 50 Hz	230 V, 50 Hz	230 V, 50 Hz
Maximum AC VA (250V AC)	4600 VA	4950 VA	5000 VA
Nominal AC voltage	230 V	230 V	230 V
Maximum AC withstand voltage	300 V	300 V	300 V
Nominal AC frequency / range	50 Hz ± 5 Hz		
Max. output current	20 A	21.5 A	21.7 A
Power factor at rated power	1	1	1
Reactive Power Control	YES	YES	YES
Variable Power factor - leading/lagging	±0.8	±0.8	±0.8
AC mains connection phases	1 Φ	1 Φ	1 Φ
Efficiency			
Maximum efficiency / European efficiency	97 % / 96.3 %	97 % / 96.3 %	97 % / 96.3 %
Protection systems			
PV panel fault – Array isolation	YES	YES	YES
Ground fault monitoring	YES	YES	YES
DC reverse polarity – PV panel miswired	YES	YES	YES
AC short-circuit current protection	YES	YES	YES
AC miswired	YES	YES	YES
‘Safety switch’ – Residual current monitoring	YES	YES	YES
Protection class (IEC 62103)	I	I	I
Overvoltage category (IEC 60664-1)	AC Output - III, Solar PV inputs - II		
Environment			
Dimensions (H / W / D)	520 / 510 / 185 mm		
Weight	24 kg	24 kg	24 kg
Operating temperature range	-25°C to +50°C	-25°C to +50°C	-25°C to +50°C
Relative humidity	4 % to 100 % (condensing)		
Noise emission (typical)	25 dB(A)		
Standby consumption (overnight)	1 W	1 W	1 W
Topology	Transformerless. Non galvanically isolated.		
Cooling method	Convection	Convection	Convection
Degree of protection (AS/IEC 60529)	IP44	IP44	IP44
Altitude (maximum operating)	2000 m	2000 m	2000 m
Maximum relative humidity (non-condensing)	100 %	100 %	100 %
Installation location	Outdoor. Sheltered from direct sun and rain.		
Standard DC connections	Phoenix SUNCLIX	Phoenix SUNCLIX	Phoenix SUNCLIX
Standard AC connections	Wieland <i>gesis</i> ®	Wieland <i>gesis</i> ®	Wieland <i>gesis</i> ®
Features			
Display - Status / Information	LED / Browser	LED / Browser	LED / Browser
WiFi Ethernet interface	YES	YES	YES
Export Limit functionality (inc Power Meter)	Optional	Optional	Optional
Ethernet wired RJ485 interface	Optional	Optional	Optional
Alarm output relay	YES	YES	YES
DRED control	DRM 0	DRM 0	DRM 0
Warranty	Standard 5 Year		
Warranty - extended	Optional : 10 / 15 / 20 years		
Standards and approvals			
	AS 4777.2(2015), ASNZS 3100, AS/NZS60950, IEC 62109.1 & .2, AS/NZS 61000.6.3, AS/IEC 60529		
YES	Included as standard feature on Eclipse model		
Optional	Refer sales representative for configuration options		