

# Grid Tied Solar Inverters



EnaSolar manufacture a range of cool solar inverters, which includes 1.5, 2.0, 3.0, 3.8kW and 4.0 & 5.0kW dual MPPT grid tied solar inverters.

- Built-in Wi-Fi as standard for web based PV system monitoring and reporting.
- Integrated lockable DC and AC isolating switches.
- Front mounted heat sink allows more airflow, easy care and cleaning.
- Wide operating voltage range.
- Light weight.
- 5 year warranty included as standard.
- A more efficient design means longer life and less call outs.

## one cool inverter

Made in New Zealand

[www.enasolar.net](http://www.enasolar.net)



enaSOLAR

# Specifications

DC Input:	1.5kW	2.0kW	3.0kW	3.8kW	4.0kW	5.0kW
Number of Inputs:	1x MPPT input			2x independent MPPT inputs		
Maximum Open Circuit Voltage (Voc):	500V	600V	600V	500V	600V per DC input	
DC Full Power Operating Range:	150-450V	185-500V	215-500V	245-350V	200-500V per DC input	235-500V per DC input
Operating Voltage Range (Vmpp):	120-450V	120-450V	120-500V	120-400V	120-500V per DC input	
DC Nominal Operating Voltage:	300V DC	350V DC	300V DC	300V DC	350V per DC input	
Maximum Input Current (Impp):	11.0A	12.0A	15.0A	16.5A	15.0A per DC input	
Maximum Usable Input Power (Pmax):	1640Wp	2200Wp	3200Wp	4000Wp	3000Wp per DC input	3500Wp per DC input
Maximum Allowable Input Power:	2250W	3000W	4500W	5000W	6000W total	7000W total
Reverse Polarity Protection:	Inherent crowbar diodes					
Isolation From AC Mains:	Galvanically isolated high frequency transformer					
Earthing:	Isolated, +ve earth, -ve earth selectable					

AC Output:	1.5kW	2.0kW	3.0kW	3.8kW	4.0kW	5.0kW
Nominal Output Voltage:	230V AC single phase					
Output Voltage Range:	202-259V AC (AU/NZ), 208-262V AC (UK)					
Output Power:	1500W	2000W	3000W	3800W	4000W	4990W 4600W (AU4.6)
Max Output Current:	7.5A	10.0A	15.0A	16.0A	18.0A 16.0A (UK)	25.0A 23.0A (AU4.6)
Recommended AC Circuit Breaker Size:	16.0A		20.0A		32.0A	
Line Frequency:	50Hz					
Total Harmonic Distortion:	<5% at full load, nominal output voltage					
Max Efficiency:	>96.0%	>96.0%	>96.0%	>96.0%	>96.5%	>96.5%
Max Euro Efficiency:	>94.0%	>94.5%	>94.5%	>94.5%	>95.0%	>95.0%
Power Factor:	>0.98					

System:	1.5kW	2.0kW	3.0kW	3.8kW	4.0kW	5.0kW
Islanding Protection:	AS4777-2, AS4777-3, G83/1-1					
Night-time Consumption:	<1.2W					
Operating Temperature Range:	-30°C to +50°C (full power), +70°C (derated)					
Acoustic Noise:	<33dBa @ 1m					
Display:	4 line x 16 character (no buttons)					
Data Interface:	Wi-Fi IEEE 802.11 (optional Ethernet RJ45) web server built-in for EnaSolar Online remote monitoring and reporting					
Environmental Rating:	IP55					
Dimensions:	330mm x 550mm x 145mm (excluding antenna)				401mm x 600mm x 168mm (excluding antenna)	
Weight:	14kg		15kg		20kg	

Model Numbers:	1.5kW	2.0kW	3.0kW	3.8kW	4.0kW	5.0kW
Wi-Fi Version:	1.5kWGT-AUNZ, 1.5kWGT-UK	2.0kWGT-AUNZ, 2.0kWGT-UK	3.0kWGT-AUNZ, 3.0kWGT-UK	3.8kWGT-AUNZ, 3.8kWGT-UK	4.0kWGT-AUNZ, 4.0kWGT-UK	5.0kWGT-AUNZ, 5.0kWGT-AU4.6, 5.0kWGT-UK
Ethernet Version:	1.5kWGT-AUNZE, 1.5kWGT-UKE	2.0kWGT-AUNZE, 2.0kWGT-UKE	3.0kWGT-AUNZE, 3.0kWGT-UKE	3.8kWGT-AUNZE, 3.8kWGT-UKE	4.0kWGT-AUNZE, 4.0kWGT-UKE	5.0kWGT-AUNZE, 5.0kWGT-AU4.6E, 5.0kWGT-UKE

Standards:	
EN61000-6-3:	"Emission standard for residential, commercial and light industrial environments", class B
EN61000-6-1:	"Immunity for residential, commercial and light-industrial environments"
EN61000-3-2:	"Limits for harmonic current emissions"
EN61000-3-3:	"Limitations for voltage fluctuations and flicker"
EN62233:	"Electromagnetic fields for household appliances"
AS4777-2, AS4777-3:	"Grid connection of energy systems via inverters"
AS/NZ3100:	"Electrical safety"
G83/1-1:	"Recommendations for small scale embedded generators"
BS50178:	"Electrical safety"
C-Tick, CE:	Declarations

## Distributed by:



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