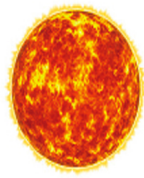


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It's time to give back to the earth

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EVER[®]
SOLAR



NEW
Arrival

Evershine
TL3000
TL4000
TL5000
TL6000



G59/2

IEEE1547



ENEL Guida



RD1663



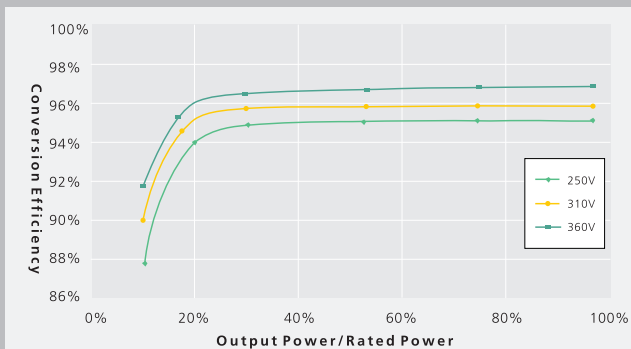
High Efficiency Premium Solar Inverter

Features

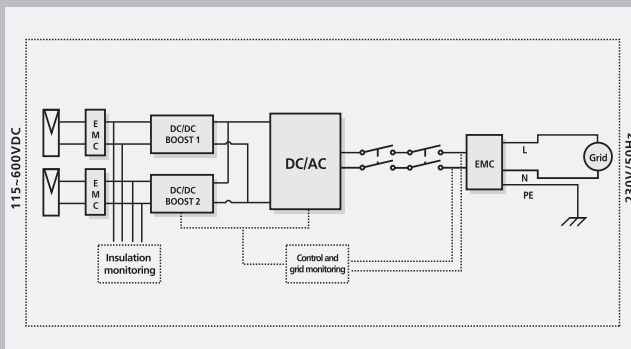
- Transformer-less design, high efficiency (Max. 97.6%, Euro. 97.0%)
- Multi MPPT channels
- High MPP Tracking accuracy (>99.9%)
- Wide DC input range (120-590 Vdc), compatible with different module technologies
- Easy wiring, installing and operating
- IP 65 design, suitable for indoor and outdoor installation
- 5 years warranty (10-25 years as option)



Efficiency Curve:



Circuit Diagram:



Technical Data	TL3000	TL4000	TL5000	TL6000
DC input data				
Max. PV-generator power [W]	3200	4200	5300	6300
Max. DC Voltage [V]	600	600	600	600
MPPT voltage range [V]	125 - 520	125 - 520	125 - 520	125 - 520
Turn off DC Voltage [V]	115	115	115	115
Max. DC current [A]	15/15	15/15	15/15	15/15
Number of DC connection	1/1	1/1	2/2	2/2
Number of MPP trackers	2	2	2	2
MPPT special property	Shadow Effect and working stable in the condition of two MPP trackers working together			
Turn on power [W]	10			
DC switch	Optional			
Output data				
AC Connector	Plug in connector			
Power connection	Single phase			
Rated AC power [W]	3000	4000	4600(Germany)/5000	6000
Max. AC Power [W]	3000	4000	4600(Germany)/5000	6000
Grid voltage range [V]	According to VDE-AR-N 4105, IEEE 1547, G83/1, G59/2, ENEL Guida, AS4777, and safty regulation of other Europe countries			
Grid frequency range [Hz]				
Rated current [A]	13	16	22	26
Max. current [A]	15	20	25	27
Power factor [cos Ø]	0.95 leading...0.95 lagging			1 leading...1 lagging
Harmonic distortion (THD) at rated output	<2%	<2%	<2%	<2%
Power consumption at night [W]	<1	<1	<1	<1
Power consumption at standby [W]	6	6	6	6
Reactive Power	With the function of active power adjustment and reactive power compensation			
Efficiency				
Max. efficiency	97.30%			
Euro efficiency	96.50%			
MPPT adaptation efficiency	99.90%			
Safety equipment				
Internal overvoltage protection	Integrated			
DC Insulation monitoring	Integrated			
Earth fault protection	Integrated			
Mains monitoring	Integrated			
Earth fault current monitoring	Integrated			
DC current monitoring	Integrated			
Islanding effect monitoring	AFD			
Safety requirement	VDE-AR-N 4105, IEEE1547,G83/1, G59/2, AS4777, ENEL Guida, RD1663,CQC,CE			
General data				
Dimensions (WxHxD) [mm]	405*480*200			
Weight [kg]	16.5	17	19	21
Mounting information	Wall Bracket			
Operating temperature range	-25°C ...+60°C (up 45°C derating)			
Relative humidity	0% ~ 98%, no condensation			
Site altitude	Up to 2000m without derating above sea level			
IP protection type	IP 65 according to IEC 60529			
Isolation type	Transformerless			
Cooling concept	Convection			
Noise level	< 30 dBA			
LED display	3 and can see clearly 7 m away			
LCD display	Graphic LCD display, visible at night			
Communication interface	RS485 / USB / Ethernet(Optional) / Wireless(Optional)			
Standard warranty	5 years			



Eversolar Sales Australia

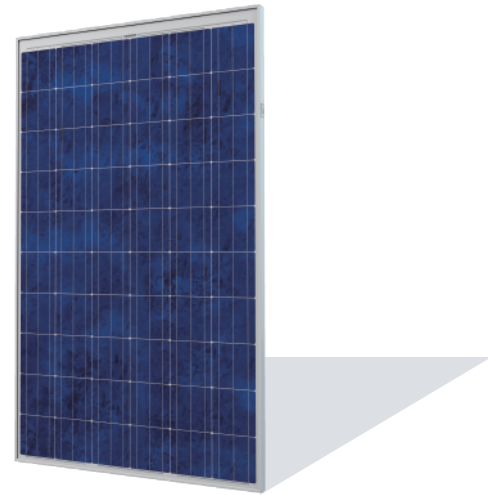
15/632 Clayton Rd, Clayton VIC 3168

TEL: 1300 736 173

FAX: (03) 9551 8801

Modules: 235W Polycrystalline

HT60-156P-235W/240W/245W/250W



Shanghai Aerospace Automobile
Electromechanical Co., Ltd

Reliable State-owned Enterprise

Deliver Solar Power since 1960s

Key Features

17.7 %

Cell Efficiency

250 W

Power Output

10 YEARS

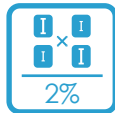
Warranty on Materials and Workmanship

25 YEARS

Warranty on Power Output



Guaranteed positive tolerance 0/+5w ensures power output reliability



All the modules are sorted and packaged by amperage, reducing mismatch losses and maximizing system output.



All HT modules are double EL tested avoiding invisible cracks, dark cells and broken bars to ensure the performance, quality and reliability.



Entire module certified to withstand extreme wind (2400 Pa) and snow loads (5400 Pa)



Excellent performance under low light environments (mornings, evenings and cloudy days)



Independent international authentication certified.



Strict quality control, meeting the highest international standards: ISO 9001, ISO14001 and OHSAS18001



Module: HT60-156P

Electrical Characteristics STC

Module	HT60-156P-235	HT60-156P-240	HT60-156P-245	HT60-156P-250
Maximum Power at STC (Pmax)	235W	240W	245W	250W
Open-Circuit Voltage (Voc)	37.4V	37.5V	37.7V	37.8V
Optimum Operating Voltage (Vmp)	30.1V	30.5V	30.8V	31.2V
Short-Circuit Current (Isc)	8.42A	8.49A	8.57A	8.65A
Optimum Operating Current (Imp)	7.81A	7.87A	7.96A	8.01A
Cell Efficiency	16.5%	16.9%	17.3%	17.7%
Module Efficiency	14.4%	14.8%	15.0%	15.4%
Power Tolerance	0 ~ +5W			
Maximum System Voltage	1000V DC (IEC) / 600V DC(UL)			
Maximum Series Fuse Rating	15A			
Operating Temperature	-40 °C to + 85 °C			

STC: Irradiance 1000W/m², module temperature 25

Coated glasses are available to improve the efficiency of modules

NOCT

Module	HT60-156P-235	HT60-156P-240	HT60-156P-245	HT60-156P-250
Maximum Power	172W	176W	180W	183W
Open Circuit Voltage (Voc)	34.1V	34.2V	34.4V	34.5V
Maximum Power Voltage (Vmp)	27.3V	27.7V	28.0V	28.3V
Short Circuit Current (Isc)	6.80A	6.85V	6.92V	6.98V
Maximum Circuit Current (Imp)	6.31A	6.35V	6.43A	6.47A
NOCT	45 °C ± 2 °C			

NOCT : Irradiance 800W/m², ambient temperature 20°C, AM=1.5, wind speed 1 m/s

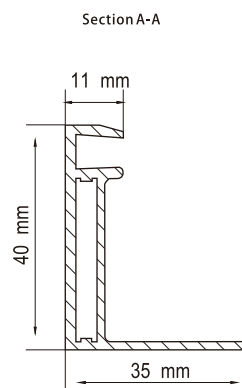
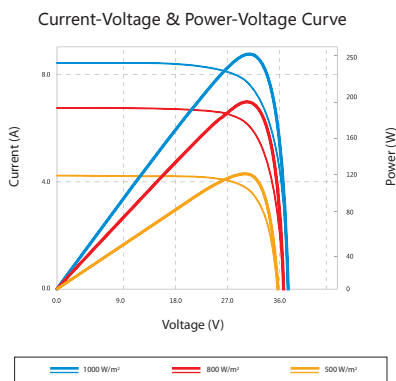
Mechanical Characteristics

Solar Cells	Polycrystalline 156 × 156mm
No. of Cells	60 (6 × 10)
Dimensions	1640 × 992 × 40mm (64.6 × 39 × 1.57in)
Weight	21.0kg (46.3 lbs)
Front Glass	High transmission tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP67 / IP65 3 diodes
Cable	4mm ² (IEC)/12AWG(UL), 900mm
Connectors	MC4/MC4 Comparable
Module Pieces per Container (40 ft. Container)	650pcs

Temperature Characteristics

Temperature Coefficient of Pmax	γ (Pm)	-0.42%/°C
Temperature Coefficient of Voc	β (Voc)	-0.32%/°C
Temperature Coefficient of Isc	α (Isc)	0.046%/°C

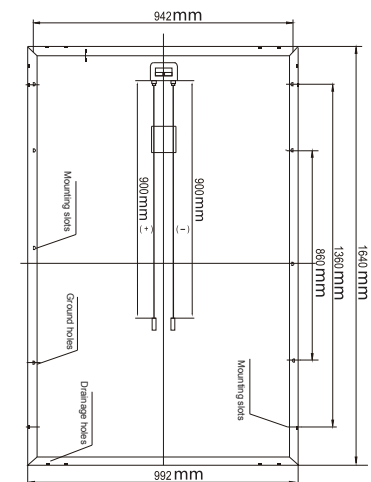
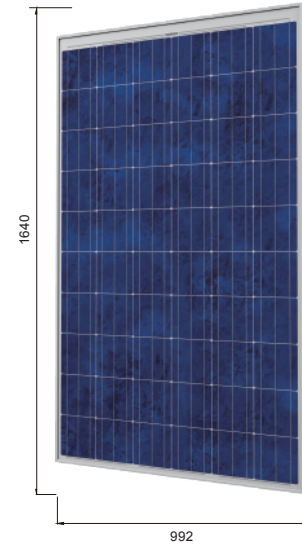
I-V Curves



Warranty

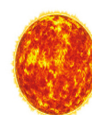
- 10-year product warranty on materials and workmanship
- 25-year warranty on power output above 80%

Engineering Drawings



Information Box

* Specifications are subject to change without further notification



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1300 736 173
15/632 Clayton Rd
Clayton VIC 3168