

INSTRUCTION MANUAL

and WARRANTY REGISTRATION CARD







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NO POSTAGE REQUIRED IF POSTED IN AUSTRALIA

MOFFAT BEACH QLD 4551 **AUSTRALIA BOX 73**

WELCOME

Latronics products are all proudly designed, engineered and manufactured in Australia. As a specialist sine wave inverter company we produce Inverters for a diverse range of applications such as; mining, railways, telecommunications, marine, remote power, motor homes, and other industrial or commercial installations.

In order to produce the most reliable products available, *Latronics* Inverters have been designed to endure the most rugged terrain and the harshest conditions across the Australian continent.

All products are engineered using the latest high quality components and manufactured to stringent quality standards, thus ensuring Latronics customers all enjoy many years of trouble free operation.

It is important to us at *Latronics*, that our clients enjoy the maximum benefits from our Inverters in a safe and productive environment. So we strongly advise that you read through the next few pages of this manual, which explains all the modes of operation and relevant safety precautions for your new Power Inverter.

Please remember to complete and return your registration card on the last page of this manual to validate your warranty. Please retain your receipt as proof of purchase.

If your Inverter requires service or repair please complete the Warranty Repair Form on page 20.

> **LATRONICS** PO BOX 73 **MOFFAT BEACH Q 4551** PH: 61 7 5491 6988 FAX: 61 7 5491 6792

EMAIL: technical@latronics.com WEB: www.latronics.com

9 Registration Warrant this complete and return validate Please

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REGISTRATION CARD

Your warranty is only valid if this card is completed & returned within 3 months of the date of purchase. Serial No: Post code: Name:..

Email (optional): * Where is vour Inverter being used? Supplier Commercial			
Email (optional): * Where is vour Inverter being used? Residential		Comments:	Commercial
Email (optional): * Where is vour Inverter being used?	onbbilei		Residential
	Date of Purchase	Email (optional):	* Where is vour Inverter being used?

Australian Made

Warranty

Recommendation

Very Good

Good

Fair

service from your supplier?

How do you rate the

Did your new Inverter meet your expectations?

Above Expectations

Other

Wind

Batteries

Solar

What Energy Source is connected to your Inverter?

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08/08

Version 5

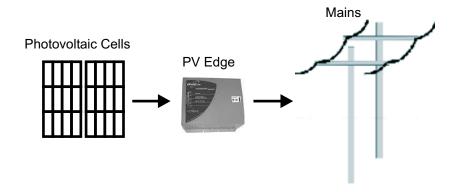
WARRANTY REPAIR FORM Your NamePhone......Phone Emgil..... Your Delivery Address Your Postal Address Inverter Serial No. Have you contacted your system installer? Do you have a battery bank What is the capacity of your Battery Bank?Amp hrs Do you have Battery fuses installed? Have these Battery fuses been checked? Was the Inverter case hot when it failed? Which lights came on when Inverter failed? 100% Overload (please tick) 75% AC Grid 50% AC Fault 25% What time did your Inverter fail? Day night What were the weather conditions? sunny overcast rainy stormy Have you disconnected the battery, no then tried to turn on your Inverter? Please call *61 7 5491 6988 or email technical@latronics.com to obtain the address of your nearest service center and your RMA Number which is essential for efficient processing. RMA Number..... Have you attached proof of purchase We thank you for your time and patience. This information will help us determining the cause of failure and possible prevention methods.

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INSTALLATION

 Grid Interactive Solar Systems have become increasingly popular in recent years. These systems do not necessarily require batteries for storage and therefore can have a very simple configuration.



BEFORE INSTALLATION

- Ensure the Inverter has not been damaged in transit.
- The unit must be placed in a well ventilated and protected area, not exposed to the open environment, and free from contaminates (i.e. exhaust gases, sea air, dust etc.).
- The PV edge is designed for indoor installation in a suitable location where ambient temperature will not exceed rated values.
- As the PV edge has a wall mountable enclosure, ensure proper air circulation for cooling of the Inverter.
- Safety- DC solar input and AC grid are electrically and galvanically isolated via the Toroidal Transformer.

It is important that all wiring in the installation complies with the relevant standards (AS4777).

Any work carried out is to be preformed by Qualified and Licensed personnel.

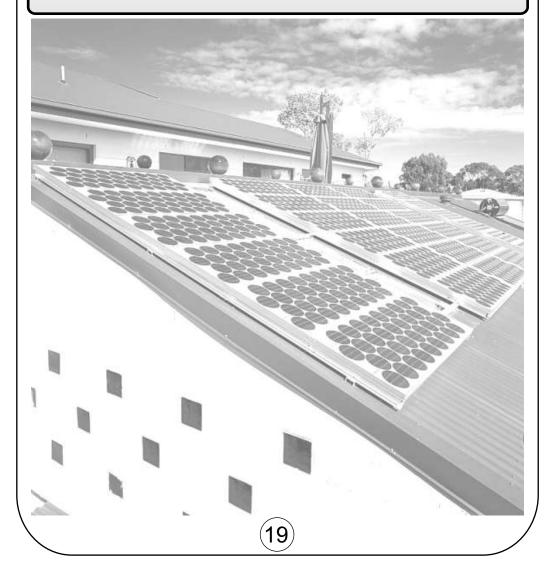
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STATEMENT OF QUALITY ASSURANCE

The whole of the supplies have been subjected to the Quality System Requirements in accordance with the conditions of AS/NZS ISO 9002: 1994.

All items are manufactured with full traceability.

All PV Edge Inverters conform to the C-Tick mark for the EMC emission standard EN55014.



TECHNICAL SPECIFICATIONS

Maximum DC Input Power	1200W	2500W
Maximum DC Input Current	22A	22A
Maximum DC Input Voltage	100V	200V
Maximum Power Point	54VDC - 100VDC	108VDC - 200VDC
Tracking Range		
Automatic Turn ON (MPPT - ON)	70VDC	140VDC
Automatic Turn ON (MPPT - OFF)	54VDC	108VDC
Starting Operation	10W	10W
Number of Modules	4x 12V modules or	8 x 12V modules
Per String	2 X 24V modules	4 X 24V modules
Reverse Polarity	Short Circuit Diode Across	Short Circuit Diode Across
Protection	DC Input Terminals	DC Input Terminals
Output Data		
Output Power	1000W cont. (1100W Max)	2100W cont. (2200W Max)
Output Voltage Range	205 -265 Vac	205- 265 Vac
Output Frequency	50Hz tolerance +/- 1Hz	50Hz tolerance +/- 1Hz
Peak Efficiency	93 %	93 %
Night Time Power	NIL Automatically	NIL Automatically
Consumption	Disconnects from AC Grid	Disconnects from AC Grid
Input/Output Isolation	3500V via Toroidal	3500V via Toroidal
	Transformer	Transformer
Operating Temperature	- 10°C to 50°C	- 10°C to 50°C
Anti islanding Protection	Over/under voltage	Over/under voltage
	Over/under frequency	Over/under frequency
	Active phase shift	Active phase shift
General Data		
Status Indicators	Output power in 25% Increments	Output power in 25% Increments
	I Crid Manitarina Stability about	
	Grid Monitoring - Stability check	Grid Monitoring - Stability check
	Solar Input ON	Solar Input ON
	Solar Input ON Grid Fault	Solar Input ON Grid Fault
	Solar Input ON Grid Fault Overload	Solar Input ON Grid Fault Overload
	Solar Input ON Grid Fault Overload Total Energy Output kWh	Solar Input ON Grid Fault Overload Total Energy Output kWh
Wall Mount Enclosure	Solar Input ON Grid Fault Overload Total Energy Output kWh Powder Coated Aluminum	Solar Input ON Grid Fault Overload Total Energy Output kWh Powder Coated Aluminum
Dimensions	Solar Input ON Grid Fault Overload Total Energy Output kWh Powder Coated Aluminum 330mm H x 296mm w x 150mm D	Solar Input ON Grid Fault Overload Total Energy Output kWh Powder Coated Aluminum 370mm H x 386mm w x 180mm D
Dimensions Weight	Solar Input ON Grid Fault Overload Total Energy Output kWh Powder Coated Aluminum 330mm H x 296mm w x 150mm D 11 kg	Solar Input ON Grid Fault Overload Total Energy Output kWh Powder Coated Aluminum 370mm H x 386mm w x 180mm D 22 kg
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DC WIRING

Check solar array does not exceed inverter's maximum voltage rating!

- * The inverter is designed to operate with a 48V solar panel array (PVE1200) or 96V solar panel array (PVE2500).
- * A 48V solar array will have an open circuit panel voltage of about 87Vdc.
- * A 96V solar array will have an open circuit panel voltage of about 174Vdc.
- * If other sources of DC input are required e.g wind turbines, micro hydro turbines etc, a battery bank or Latronics Turbine Controller (see pg 9) will be required with the Maximum Power Point Tracking (MPPT) disabled (see pg 13).
- * The DC input voltage is stated on the PV Edge compliance label and the technical specifications sheet within this manual. Check that the input voltage is within the required limits and does not exceed the maximum limit (see pg 18).
- * Recommended cable size for the DC Input is 6sqmm with an insulation rating of 0.6/1KV.
- * Observe Polarity.
- * The Inverter is fitted with DC circuit breakers for the positive and negative DC Input connections.
- * Ensure the DC breakers are switched OFF when connecting or disconnecting the DC leads.

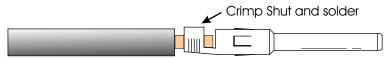
POSITIVE/NEGATIVE EARTHING

The PV Edge inverter is suitable for use with solar arrays that require positive or negative earthing. Due to the inverter's galvanic isolation between AC and DC inputs no additional modifications are required. Simply connect the positive or negative of the solar array to the system earth.

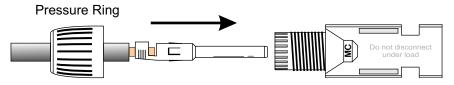
MC4 CONNECTOR WIRING

The inverter comes with two MC4 connectors panel mounted on the case. To assemble the connecting partner, take a male and female MC4 connector and follow the instructions below.

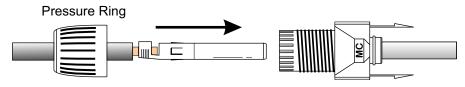
- 1. Strip back 10mm of cable (Recommended Cable: 6sqmm or bigger).
- 2. Check correct cable is partnered to correct connector. Insert the stripped cable into the metal insert and crimp shut.



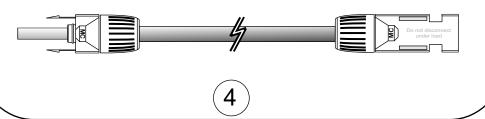
- 3. Solder the crimped cable to the metal insert to ensure a solid connection.
- 4. Unscrew the pressure ring and insert the cable through.
- 5. Push cable into main body until clipped in.



6. Repeat procedure for the other connector.



Handy Hint: MC4 connectors are purchasable in short male to female links, which can be cut in half and used to save time.



WARRANTY CONDITIONS

All conditions and warranties expressed or implied by stature, common law, equity, trade, custom, usage, or otherwise howsoever are hereby expressly excluded to the maximum extent permitted by law. Where so permitted the liability of Latronics for a breach of condition or warranty that cannot be excluded is limited (at Latronics option) to the replacement or repair of the goods or of acquiring equivalent goods or the cost of replacing or repairing the goods or of acquiring equivalent goods. Latronics shall not be liable in any way whatsoever for indirect or consequential loss or damage whatsoever (whether based on tort or contract or otherwise)

- Damage caused by unauthorised repair, alteration or substitution of nonstandard parts, incorrect installation, misuse, negligence, accident or similar cause, or usage other than in accordance with the operating instructions, is not covered under warranty.
- Unauthorised opening of the goods will render the Warranty invalid.
- The company may, at its discretion, agree to act as agent for the owner where delivery is requested and all costs for cartage and insurance will be for the owners account. All warranty work is ex-factory.
- The replacement of any part or labour involved will not have the effect of extending the period of the warranty of the goods.
- Any faulty part replaced under Warranty becomes the property of the Company for purposed of examination and claim under proprietary Warranty.
- Registration Card must be returned within 30 days from date of purchase to validate your warranty.
- Keep your receipt as proof of purchase, should any difficulties arise concerning the return of the registration card.
- Inverters are supplied by the manufacturer, or the manufactures agents, under the express condition that no responsibility is implied or accepted by the above parties for any damage to any appliance, equipment or property associated with the correct or otherwise operation of the Inverter.
- If service is required contact your local supplier/installer, or contact Latronics direct. Please ensure that you have completed the warranty repair form on page 18 to enable prompt processing.

RADIO FREQUENCY INTERFERENCE

Radio Frequency Interference (RFI) is a phenomenon that exists in modern society and is a problem in many areas of electronics. For Inverter users, RFI normally presents itself in the form of static and/or interference when listening to an AM radio and in unusual cases may interfere with TV reception.

Over the years Latronics has continued to invest significant time and effort in the reduction of RFI related emissions from the entire product range, so that they comply with the appropriate International and/or Australian Standards.

Even with this compliance, there are situations where RFI may still be a cause for concern, and can differ greatly from installation to installation. Accordingly, the following is a list of recommendations made to assist in the overall reduction of RFI.

- Separate DC and AC wiring. Avoid running DC and AC cables in the same conduits and/or cable trenches. It is strongly recommended that DC and AC wiring be separated by the greatest distance possible. In extreme cases, the use of shielded conduit may be necessary.
- Minimize length of DC cabling. DC cables can act as an aerial, therefore all such cables should be kept as short as is practicable. For best performance minimize DC cable length to Inverter and Batteries and if possible avoid the use of auxiliary DC loads.
- 3. **240Vac Earth**. For household installations, it is recommended that a "good" Earth Stake is located as nearby the Inverter as is possible.
- 4. **AM and HF Radios.** These types of radio equipment inherently suffer from all forms of RFI, especially when the received signal level is weak. In such cases reception can sometimes be improved by relocation of the radio itself, alternatively the use of an appropriate external antenna and co-axial cable may be necessary. External antennas should be located in a manner that ensures maximum signal strength whilst affording the greatest possible distance away from the Inverter and Batteries.
- 5. Televisions. TV signals are transmitted as FM waveforms. This type of signal fundamentally reduces the effects of RFI, therefore the use of a good antenna and feeder cable is normally sufficient to ensure quality reception. Locating the television as far as possible from the Inverter may also improve picture clarity.

AC WIRING

Both models require an external 10A circuit breaker for protection of inverter's AC input. Usually mounted in main switchboard. The active and neutral of the AC output are electrically isolated from the DC inputs and earth connections.

Latronics Inverters have the AC output (active and neutral) floating with respect to the DC and Earth. This configuration provides the highest safety and most flexibility for installation wiring. The earth **E** is connected internally to the Inverter case and is suitable for *MEN* wiring.

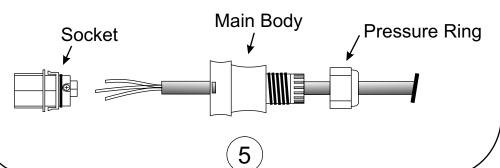
The unit is supplied with both male and female 20Amp Wieland Gesis lockable AC connectors that can be disconnected under full load and complies with AS4777 standards for an isolator at the inverter.

To install connectors read the following procedure.

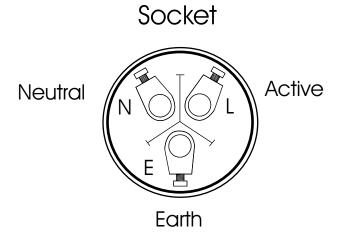
- 1. Make sure Inverter is switched OFF before working on mains wiring. Turn external AC Circuit Breaker switch into OFF position and make sure it cannot be switched back on.
- 2. Test the wiring with a voltmeter to make sure no voltage is present.
- 3. Peel back 30mm of cable jacket and cut Active and Neutral cables 5mm shorter than Earth.



- 4. Strip 5mm off all three cables.
- 5. Take the Wieland Gesis connector, disassemble into three main sections and insert stripped wire through as shown below.



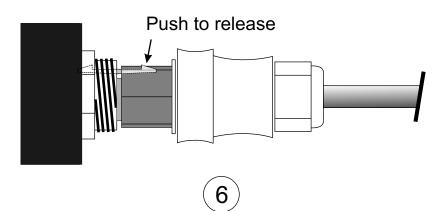
6. Connect the Active, Neutral and Earth cables as per diagram below.



- 7. Push the socket back into the Main Body until it clips in.
- 8. Screw the Pressure Ring back in to form a tight seal.
- 9. Plug into PV Edge.

To disconnect the plug, simply push the clip in and unplug.

Note: The clip section can be completely taken out if a lockable connector is not desired.



FAULT FINDING

Should the Inverter appear to be malfunctioning we suggest the following to eliminate any external problems.

- Turn the Inverter OFF by switching the DC & external AC Circuit Breakers OFF. Leave OFF for 60 seconds.
- Reconnect the DC Solar Input by switching DC breaker ON. All lights on the Inverter should come ON for 1 second at power up and then go OFF. The 75% light should remain ON to indicate the Solar Input is available. Solar Input voltage needs to be above the automatic turn ON voltage, see pg 18, for the light to turn ON. If the light does not illuminate check Solar Input for correct operation.
- Next reconnect the AC grid by switching the external AC breaker ON. After 20 seconds the 75% light should begin flashing to indicate Inverter reconnecting to the AC grid. The light will flash for 60 seconds while the PV Edge checks that the mains voltage and frequency are stable. Should the light not begin flashing check if the AC grid is present.
- After the 75% light stops flashing the Inverter will begin feeding power into the AC Grid.

HELPFUL HINTS

- Make certain that you understand the operation of the Inverter.
- Remember that it has automatic reconnection to the AC grid.
- Make sure leads and terminals are not corroded, loose or faulty in any way.
- Make sure Circuit Breakers or switches are reset properly. If unsure switch OFF and ON again.

SOLAR INPUT CONFIGURATION

PVE 1200 (Max Solar Input: 1400Wp)

	•			
Panel Power At 25°C	Module Type	Number of Panels Per String	No. of Strings	Solar Input Power
75W	12V	4	4	1200W
90W	12V	4	3	1080W
100W	12V	4	3	1200W
125W	12V	4	2	1000W
140W	24V	2	4	1120W
150W	24V	2	4	1200W
165W	24V	2	4	1320W
175W	24V	2	4	1400W

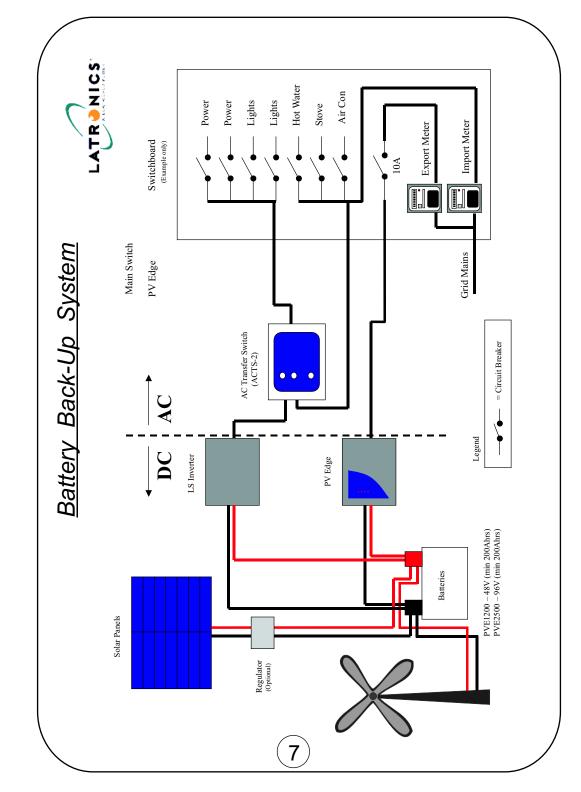
PVE 2500 (Max Solar Input: 2800Wp)

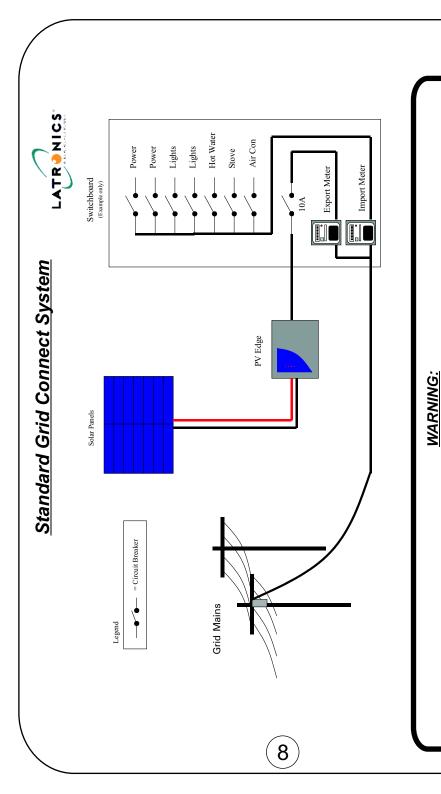
		1 1.7		
Panel Power At 25°C	Module Type	Number of Panels Per String	Number of Strings	Solar Input Power
90W	12V	8	3	2160W
100W	12V	8	3	2400W
110W	12V	8	3	2640W
125W	12V	8	2	2000W
140W	24V	4	4	2240W
150W	24V	4	4	2400W
160W	24V	4	4	2560W
165W	24V	4	3	1980W
175W	24V	4	4	2800W

Note 1: The DC input is suitable for connection to solar modules only, when MPPT is enabled.

Note 2: Do not exceed recommended Maximum DC Input Power.

Note 3: All solar modules should be of the same type and brand. Therefore the maximum power point and voltage variation with temperature are consistent for all modules, which will ensure maximum system output.





DIP SWITCH SETTINGS

Switch 1 -MPPT / Battery mode

In the ON position (default) the Maximum Power Point Tracking is enabled. This is required when the DC input is Photovoltaic Solar Modules only. In the OFF position the Maximum Power Point Tracking is disabled and the voltage tracking will operate at a fixed voltage of 54V (PVE1200) or 108V (PVE2500). This setting is required in a system where a 48V (PVE1200) or 96V (PVE2500) Battery Bank is required on the DC input.

Switch 2 - 50/60 Hz

In the ON position the Inverter is set for 60Hz operation. In the OFF position (default) the Inverter is set for 50Hz operation.

Switch 3

Battery type selector not used if switch 1 is ON.

ON = Gel/SLA battery.

OFF = Flooded battery. (default)

Switch 4

Must be in OFF position (default) for normal operation. The ON position is a factory AC test setting.

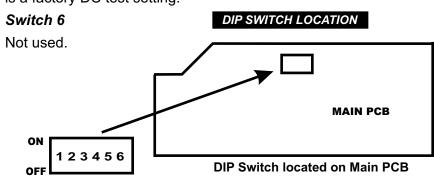
Switch 5

The Inverter output is connected to mains electricity, thus it is important that all AC wiring complies with the requirements of the relevant wiring standards, (AS3000, AS4777).

Any work carried out on AC/Mains wiring is to be performed by Qualified And Licensed personnel only.

only.

Must be in the OFF position (default) for normal operation. The ON position is a factory DC test setting.



WARNING:

Due to dangerous voltages existing inside the unit, make sure the DC circuit breaker and AC solar isolator are turned off before opening the unit. Only qualified Trades Persons are permitted to adjust these settings.

SPECIAL FEATURES

Circuit Breakers

There is one double pole DC circuit breaker isolating both DC positive & DC negative.

Digital KwH Meter

The KwH meter shows an accumulative reading of the total power generated and allows the user to monitor their green power production. LCD display with 5 digits and 2 decimal places (i.e. 99999.99kwh).

Night Time Disconnect

After dark when the solar input is no longer available the Inverter will automatically disconnect from the AC grid. This feature ensures that during the night, the Inverter cannot consume any power whatsoever while remaining idle. Upon sunrise the next morning when solar input becomes available again, the PV edge will automatically reconnect to the AC grid and begin generating power.

Parallel Operation

The PV edge automatically synchronizes to the AC grid, therefore the output of multiple units can all be connected together, and they will all be synchronized by the AC grid.

Note: The Solar inputs of multiple unit Inverters are not to be paralleled.

Maximum Power Point Tracking

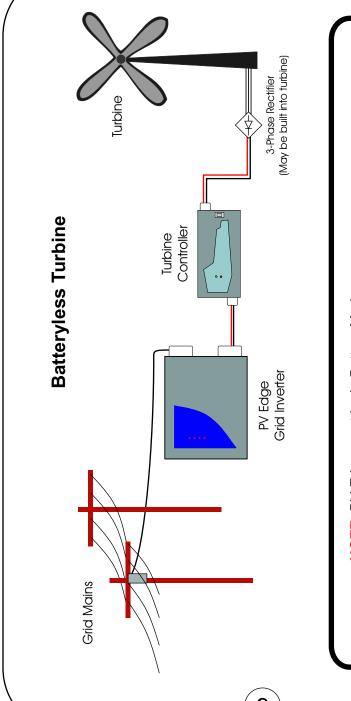
The optimum power level from the solar input depends on the available solar modules. Even in cloudy weather with fluctuations in the solar radiation level, the PV Edge constantly monitors and tracks the optimum operating point to ensure maximum power from the solar modules is achieved.

Protection

The AC grid supply is constantly monitored for under and over voltage, over and under frequency, and anti islanding conditions via active phase shifts. The DC input is protected against over voltage, reverse polarity and over current via very fast current limit control. Isolation between the DC input and AC output is achieved via the Toroidal Transformer. The temperature of the transformer and switching devices are continuously monitored. The Inverter is fitted with a cooling fan, which is temperature controlled and only operates when required.

Maintenance Cycle

When in Battery mode (MPPT disabled) a maintenance cycle is performed every 30 days. This is a short boost cycle for sealed batteries or an equalize charge for flooded cells. In this mode the bottom LED will flash slowly until the cycle is completed.



NOTE: PV Edge must be in Battery Mode. (See pg 13)

The Latronics Turbine Controller utilizes the latest in micro-controller design to deliver stable and safe supply of power to the grid connect inverter. Designed specifically to integrate with the PV Edge line of Latronics inverters, it allows battery-less grid connection of wind and water turbines.

INVERTER OPERATION

When the Inverter is switched on all 4 LED'S light up for 1 second while the microprocessor performs a start up and system check procedure.

OVERLOAD

ATR NICS

100% Light (Overload)

This light illuminates when the power level is between 75% - 100%. This light also indicates overtemp/overload. In this mode the lower lights will be OFF and this light will flash.

75% Light (AC Grid)

This light will be ON when the power level is between 50% -75%.

This light also has 2 other modes of operation.

When in either of these 2 modes the bottom light will be OFF.

This light will be ON when the solar input is present and the AC grid is disconnected and/or awaiting reconnection.

This light will FLASH for 90 seconds when the inverter initially connects to the AC grid and performs a voltage and frequency stability check before feeding power into the AC grid.

50% Light (AC Fault)

is between 25% - 50%. When an AC fault is present this light will FLASH and the bottom light will be OFF.

25% Light

This light will be ON when the power level is between 0% - 25% or it will flash during a battery maintenance cycle (see pg12).

Indicator Lamps

The 4 lights on the front panel indicate the Inverter power level in increments of 25%

LED 4 -100% (top Led).

LED 3 - 75%.

LED 2 - 50%.

LED 1 - 25%. (Bottom Led).

If the Inverter were supplying 60% of Full power then Led's 1, 2 & 3 would be illuminated.



ON - OFF switch DC Circuit Breakers & kWh Meter

Circuit Breakers

MC4 Solar Connector

For easy connection and disconnection of DC Input Power from Solar Panels or Battery Bank.

Fan

If the temperature inside the Inverter reaches preset levels, the variable speed fan will switch on initially in low speed and then into higher speed if the temperature continues to increase. Obstruction of the air intake and output will reduce the power rating of the Inverter.

This light will be ON when the power level

10

11