

# Narara Ecovillage

Revision 1 – 08 November 2016



## Inverter – Specification Sheet

### Standards

- National Construction Code (Building Code of Australia)
- AS/NZS 3000 Electrical Wiring Rules
- AS 4777 Grid Connection of Energy Systems via Inverters

### Requirement

Provide from a manufacturer with certified rating data a factory assembled transformer less DC / AC inverter complete with battery connections, protective devices, junction boxes, name plate, grounding connection, fixing points, communications connections and interactive display.

### Warranty

Provide 5-year factory warranty.

### Efficiency

Minimum efficiency = 95.0 %.

### Construction

Protection: IP 65 rated.  
Housing: Weather proof / sun resistant polymer.  
Seals: Water proof silicon.

### Protective Devices:

The unit shall be factory fitted with the following protective devices:

- Input side disconnection points.
- Ground fault monitoring.
- Grid monitoring.
- DC reverse polarity protection.
- AC short-circuit current capability.
- All-pole sensitive residual current monitoring unit.

### Performance Parameters

Input voltage: 125 V (minimum) – 750 V (maximum).  
Input current: 15 A (maximum).

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AC frequency: 50 Hz  $\pm$  5 Hz.

Output voltage: 220 V (minimum) – 240 V (maximum).

Output current: 16 A (maximum), single phase.

Temperature: - 25 °C to 60 °C.

DC connections: spring cage terminal.

AC connections: spring cage terminal.

Display: Graphic LED or LCD.

Communications: Ethernet RJ45 connection or wireless.

## Control

The unit shall be supplied with a complete DC / AC control system cable of power management and full management of the photovoltaic array, battery storage system and single phase AC connection to the electrical distribution network.