

# Narara Ecovillage

Revision 1 – 08 November 2016



## Photovoltaic Panel – Specification Sheet

### Standards

- National Construction Code (Building Code of Australia)
- AS/NZS 3000 Electrical Wiring Rules

### Requirement

Provide from a manufacturer with certified rating data a factory assembled tier one, mono-crystalline or poly-crystalline photovoltaic panel complete with junction box, name plate, grounding connection, fixing points and drainage holes.

### Warranty

Provide 10-year factory product warranty and 25-year factory performance warranty.

### Efficiency

Minimum efficiency = 15.0 % (at 1,000 W/m<sup>2</sup> irradiance and 25 °C cell temperature).

### Construction

Glass: 3.2mm thick, high transmission, AR coated tempered glass.

Frame: Silver anodized aluminium alloy.

Junction Box: IP 67 rated.

Cables: 4.00 mm<sup>2</sup> cross section area, 1,000 mm length.

Connector: MC4 compatible.

Seals: Water proof silicon.

### Performance Parameters

Wind load: 2,400 Pa.

Hail: 35mm hail stones at 97 km/h.

Temperature: -40 °C to 85 °C (ambient).

Voltage: 1,000 V DC (maximum).

Current: 15 A (maximum series circuit breaker rating).