

tindo walara 510-525 G3P

## Electrical Characteristics [Power tolerance 0 / + 5W]

| Model Name            |      | Walara-510G3P |       | Walara-515G3P |       | Walara-520G3P |       | Walara-525G3P |       |
|-----------------------|------|---------------|-------|---------------|-------|---------------|-------|---------------|-------|
| *STC / **NMOT         | Unit | STC           | NMOT  | STC           | NMOT  | STC           | NMOT  | STC           | NMOT  |
| Max. Power            | Wp   | 510           | 388.9 | 515           | 392.6 | 520           | 396.3 | 525           | 400.1 |
| Max. Power Voltage    | V    | 39.23         | 36.99 | 39.39         | 37.14 | 39.55         | 37.29 | 39.71         | 37.44 |
| Max. Power Current    | A    | 13.01         | 10.52 | 13.08         | 10.57 | 13.15         | 10.63 | 13.22         | 10.68 |
| Open Circuit Voltage  | V    | 47.46         | 45.11 | 47.62         | 45.26 | 47.78         | 45.41 | 47.94         | 45.57 |
| Short Circuit Current | A    | 13.78         | 11.11 | 13.86         | 11.17 | 13.94         | 11.23 | 14.02         | 11.30 |
| Module Efficiency     | %    | 21.5          |       | 21.7          |       | 22.0          |       | 22.2          |       |

\*STC (Standard Test Condition): 1,000 W/m<sup>2</sup> , AM 1.5, 25°C

\*\*NMOT(Nominal Module Operating Temperature) : Irradiance at 800W/m, Ambient Temperature 20°C, Wind Speed 1m/s, air mass of AM1.5

# Tolerance of Measuring Pmax, Voc & Isc  $\pm 3\%$  within each watt class at STC

## Mechanical Characteristics

|                 |                                                     |
|-----------------|-----------------------------------------------------|
| Cells per panel | 132 Half Cells                                      |
| Cell Type       | N-type Cells (182 x 182mm)                          |
| Panel Dimension | 2090 x 1133 x 35 mm                                 |
| Panel Weight    | 26 Kg                                               |
| Front Glass     | 3.2mm Fully tempered Double ARC Glass               |
| Frame           | Anodized Aluminum Alloy (T6) / Black                |
| Junction Box    | 3 bypass diodes / IP68 rated                        |
| Cable           | 1200 mm(+/-), 4mm <sup>2</sup> or Customised Length |
| Connector Type  | Stabli – MC4 / KST 4-EVO2(M), KBT4-EV02(F)          |

## Thermal Characteristics

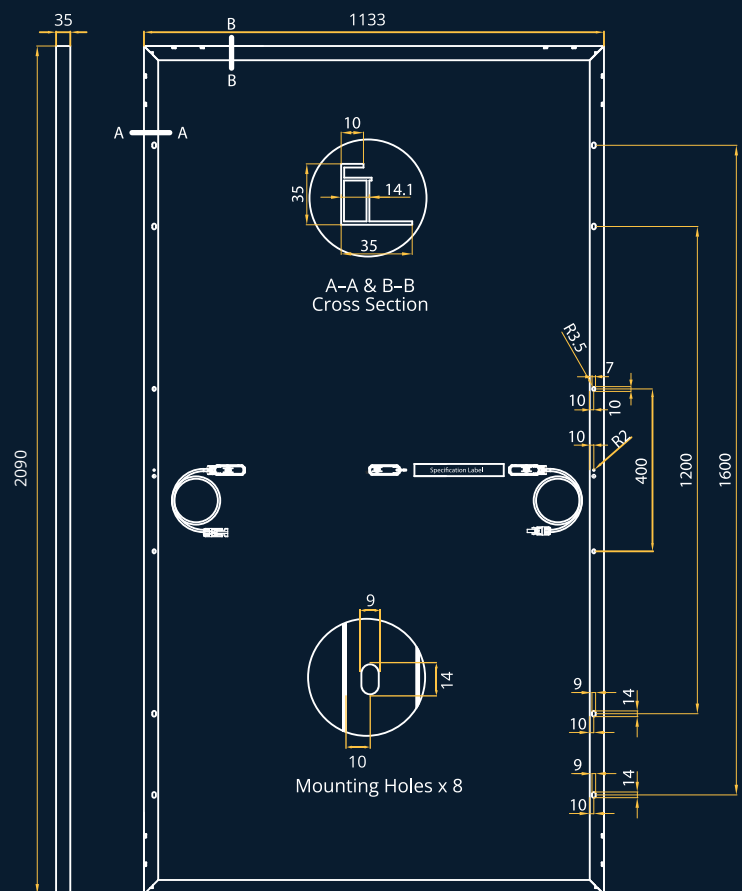
|                              |      |      |           |
|------------------------------|------|------|-----------|
| Operating Temperature        |      | %    | -40 ~ +85 |
| Maximum System Voltage (IEC) |      | VDC  | 1500      |
| Maximum Series Fuse Rating   |      | A    | 30        |
| Thermal Coefficient          | Isc  | %/°C | 0.045     |
|                              | Voc  | %/°C | -0.25     |
|                              | Pmax | %/°C | -0.32     |

## Qualification Test

|                                                                                                                  |                                            |
|------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| Thermal cycling test                                                                                             | -40°C to 85°C for 200 cycles               |
| Damp heat test                                                                                                   | 85°C and 85% relative humidity for 1000 hr |
| Front Load test                                                                                                  | 5400Pa                                     |
| Rear Load test                                                                                                   | 2400Pa                                     |
| Hail Impact test                                                                                                 | 25mm hail at 23m/s from 1m distance        |
| Cyclone tested by Structural Engineering Consultants Australia (SECA) Pty Ltd - certificate available on request |                                            |
| # Safety factor of *static load test: 1.5 (Test load = Design load x Safety factor)                              |                                            |
| # NexTracker installation : Front load 2400 Pa / Back Load 1800 Pa                                               |                                            |

## Packaging

| Stacking Method         | Horizontal | Vertical (Optional) |
|-------------------------|------------|---------------------|
| Panels per Pallet       | 30         | 31                  |
| Loading Capacity (40HQ) | 600        | 682                 |



## Safety Ratings & Warranties

|                            |                                       |
|----------------------------|---------------------------------------|
| Safety Application Class   | Class II                              |
| Fire Safety Classification | Class C                               |
| Certifications             | IEC 61215 , IEC 61730                 |
| Warranty                   | 25 years limited product warranty     |
| Performance Guarantee      | 25 years limited warranty 87.4% power |

Note:

- The specifications included in this datasheet are subject to change without notice.
- The electrical data given here is for reference purpose only.
- Manufactured in Australia by Tindo Operations Co Pty Ltd, 6-8 Park Way, Mawson Lakes, SA 5095