

# TOPCON SOLAR PANEL

**550W - 590W** (Dual Glass)

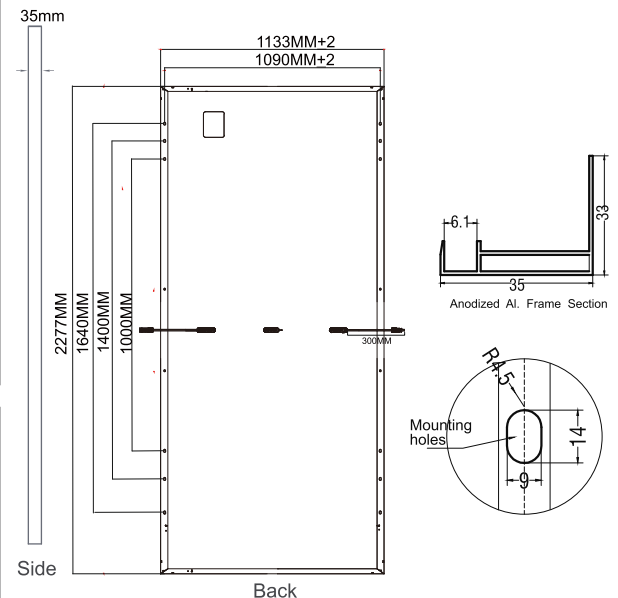
| Model No.                         | UTL550-144GT   | UTL570-144GT | UTL580-144GT | UTL590-144GT |
|-----------------------------------|----------------|--------------|--------------|--------------|
| <b>Electrical Characteristics</b> |                |              |              |              |
| Nominal power at STC Pmax (W)     | 550W           | 570          | 580          | 590          |
| Short Circuit Current Isc (A)     | 13.39          | 13.81        | 14.02        | 14.24        |
| Operating voltage at Pmax Vmp (V) | 43.05          | 43.85        | 43.90        | 44.27        |
| Operating current Imp (A)         | 12.78          | 13.01        | 13.21        | 13.33        |
| Open circuit voltage Voc (V)      | 50.18          | 51.10        | 51.25        | 51.52        |
| Module efficiency %               | 21.31          | 22.09        | 22.48        | 22.87        |
| Operating Temperature             | -40°C to +85°C |              |              |              |
| Maximum system voltage (DC)       | 1500VDC        |              |              |              |
| Output Tolerance                  | ± 2%           |              |              |              |
| Fill Factor                       | >80%           |              |              |              |
| Max. Series Fuse Rating           | 30A            |              |              |              |

STC: Irradiance 1000W/m<sup>2</sup>, Cell temperature 25°C, AM1.5

|                                   |                         |
|-----------------------------------|-------------------------|
| <b>Mechanical Characteristics</b> |                         |
| Cell type                         | N TYPE TOPCON 16BB      |
| No of Cell                        | 144                     |
| Module Dimension (mm)             | 2277x1133x35            |
| Weight (kg)                       | 31.5 Kg Approx.         |
| Junction Box                      | Split, 30A              |
| Frame                             | Anodized Aluminum Alloy |
| Front cover                       | HS Glass with ARC       |
| Connectors                        | MC4 compatible          |

|                                |            |
|--------------------------------|------------|
| <b>Temperature Coefficient</b> |            |
| Temperature Coefficient (Voc)  | -0.26% /°C |
| Temperature Coefficient (Isc)  | 0.04% /°C  |
| Temperature Coefficient (Pmax) | -0.31% /°C |

## DRAWING (MEASUREMENTS ARE IN MM)



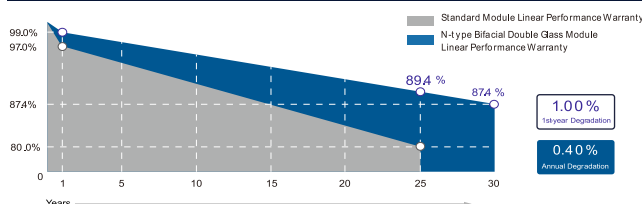
## WARRANTY

### Power Degradation 1% in First year and 0.4%/year from 2 to 30 years

\*Standard Test Conditions [STC] -1000 W/m<sup>2</sup> irradiance, Air Mass 1.5 and 25°C cell temperature.

Nominal Operating Cell Temperature (NOCT) - 800 W/m<sup>2</sup> irradiance, Air Mass 1.5, Ambient temperature 20°C and Wind speed 1 m/s. Average power reduction of 4.5% at 200 W/m<sup>2</sup> as per IEC 60904-1. Measuring Uncertainty ± 3%.

### LINEAR GRAPH



## I-V Curve at STC

