



T2300 PVT Module



- Electricity: Rated Power 580 W_p under Standard Test Conditions (STC)
- Heat: Rated Power 1,768 W_{th}
- **Over 2,300 W Total combined power under Thermal Standard Test Conditions (T-STC)**
- **Over 90% Total energy conversion efficiency at T-STC**
- Fully integrated Photovoltaic and Thermal (PVT) collector mounts on standard PV racking
- Standard MC4 electrical connections
- Tyll Solar plug and play fluid connections for rapid and rugged installation
- Cool running solar cells provide higher electrical energy yield
- Heat energy more than 3X electrical energy

Electrical

Peak Electrical Power (W @ STC)	530
Power Tolerance (W)	-0/+5
Voltage at Peak Power (V _{MP})	43.36
Current at Peak Power (I _{MP})	13.38
Open Circuit Voltage (V _{OC})	52.32
Short Circuit Current (I _{SC})	14.01
Operating Temperature	-40°C to +85°C
Maximum System Voltage	1,500 V
Temperature Coefficient of P _{MAX}	-0.34 %/°C
Temperature Coefficient of V _{OC}	-0.20 %/°C
Temperature Coefficient of I _{SC}	+0.05 %/°C
Nominal Operating Cell Temperature (NOCT)	45 +/- 2°C

Thermal

Thermal Power (W @ TTC)	1,800 W
Aperture Area	2.5 m ²
Volume of Liquid	8.6 liters
Heat Transfer Liquid	Propylene Glycol/Water
Nominal Fluid Flow	0.064 liter/s

Test Conditions

Solar Spectrum – AM1.5 for all test conditions
 STC – 1,000 W/m² irradiance, 25°C cell temperature, wind speed < 1 mph
 TTC – 1,000 W/m² irradiance, 25°C ambient, 15°C incoming coolant temperature
 NOCT – Module temperature at 800 W/m² irradiance, 20°C ambient

Mechanical

Number of Solar Cells	144 Half Cells
Cell Material	Mono-crystalline Silicon
Cell Dimensions	182 mm (M10)
Module Length	2,278 mm
Module Width	1,133 mm
Module Thickness	35 mm
Orientation	Portrait
Weight (Est.)	46 kg
Front Cover	Low-Iron Strengthened Solar Glass
Body Material	Aluminum
J-Box	3xIP68
Electrical Connector	MC4
Fluid Connector	Tyll Solar Proprietary
Per Pallet	31 Pieces, 1,520 kg
Per Container (40' HQ)	620 Pieces

Certifications

Electrical	UL 61730 (pending)
Thermal	SRCC 100 (pending)