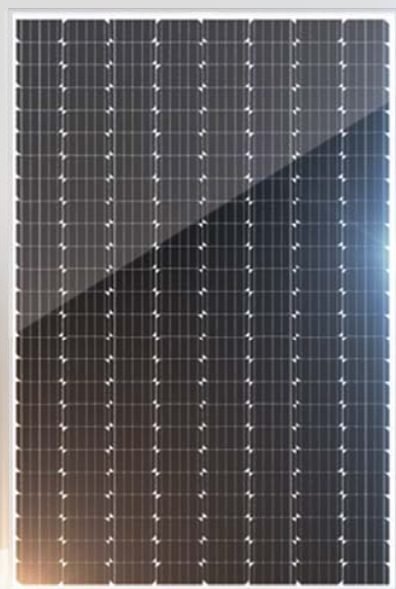


MONO CRYSTALLINE

SOLAR MODULE 480-500 Wp



TEMPERATURE COEFFICIENTS

VOLTAGE	-0.308 % / °C
CURRENT	0.032 % / °C
POWER	-0.42 % / °C
NOCT AVG	45 °C ±3

LIMITS

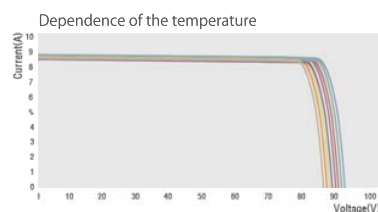
MAX. SYSTEM VOLTAGE
DC 1.000V

OPERATING MODULE TEMPERATURE
-40°C TO +90°C

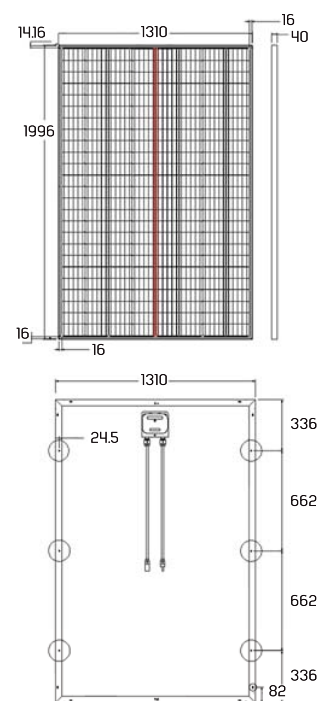
STORM RESISTANCE/STATIC LOAD
Tested to IEC61215 for loads
up to 5400Pa (113psf).
hail and wind resistant

WARRANTY - 10 YEARS
POWER OUTPUT 90% - 10 YEARS, 80% - 25 YEARS

* I-V Curve



* TECHNICAL DRAWINGS



* MECHANICAL CHARACTERISTICS

Solar cells	Mono crystalline cells
Front cover	Low iron tempered glass 4.0mm, AR
Back cover	White polyester
Frame	Silver anodized aluminum alloy (40mm)
Output Cables	4mm ² cables with polarized weatherproof connectors, IEC certified, Length 1.25m(49.2in)
Junction box	IP67, 8Bypass diodes
Dimensions	1996 * 1310 * 40
Weight	35kg

* ELECTRICAL SPECIFICATION

	TSH-S480		TSH-S500	
Nominal power[Wp] - Pmpp	480		500	
Voltage at nominal power[V] - Vmpp	106.17	53.09	106.67	53.34
Current at nominal power[A] - Impp	4.52	9.04	4.69	9.38
Open-circuit voltage[V] - Voc	127.63	63.8	128.22	64.1
Short-circuit current[A] - Isc	4.75	9.5	4.93	9.86
Module efficiency level[%]	18.36 %		19.12 %	

Performance under standard test conditions (STC) : 1000W/m², 25°C, AM 1.5 / Output tolerance[%] 0~+3%