

# E-Series

# 250-260 Watt Poly Solar Panel

**+5 / -0  
Wp**

**Positive power tolerance**  
+5 / -0 Wp

**PID  
FREE**

**PID-Free**  
PID stands for Potential Induced Degradation  
Module power loss is less than 5% under IEC 62804

**HOT  
SPOT**

**Hot-spot protection**  
Design to withstand localized heating caused by cracked, mismatched cells, interconnection failures, or partial shadowing

**Snowflake icon**

**Maximum load**  
Design to withstand heavy snow and wind pressure under IEC 61215 & 61730

**EL TEST**

**In-House EL tests**  
Use electroluminescence (EL) measurements to rule out invisible defects such as microcracks, finger defects, and low-current output areas in modules



## Warranty & Insurance

25-year limited warranty on power output  
10-year limited warranty on workmanship  
Contact TSEC AMERICA for warranty information

## Product & Management System | Certificates



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### Performance at standard test condition (STC)\*

		TS60-6P3-250S	TS60-6P3-255S	TS60-6P3-260S	
Maximum Power	P <sub>max</sub>	250	255	260	W
Open Circuit Voltage	V <sub>oc</sub>	37.59	37.79	38.09	V
Maximum Power Voltage	V <sub>mp</sub>	30.72	30.98	31.18	V
Short Circuit Current	I <sub>sc</sub>	8.65	8.69	8.76	A
Maximum Power Current	I <sub>mp</sub>	8.15	8.24	8.34	A
Tolerance of Maximum Power		+5 / -0			W
Module Efficiency		15.37	15.67	15.98	%
PTC Rating		227.3	232.0	236.7	W

\*STC: Standard Test Condition, 1000 W/m<sup>2</sup>, AM 1.5, 25°C

\*PTC: PVUSA Test Condition

### Performance at 800 W/m<sup>2</sup>, NOCT, AM 1.5

		TS60-6P3-250S	TS60-6P3-255S	TS60-6P3-260S	
Maximum Power	P <sub>max</sub>	182.93	186.89	190.87	W
Open Circuit Voltage	V <sub>oc</sub>	34.53	34.75	35.07	V
Maximum Power Voltage	V <sub>mp</sub>	27.90	28.17	28.39	V
Short Circuit Current	I <sub>sc</sub>	7.04	7.07	7.14	A
Maximum Power Current	I <sub>mp</sub>	6.56	6.63	6.72	A

### Module Characteristics

Cell Configuration	60 in series
Cell Type	6" Polycrystalline Silicon
Length	64.57 in / 1640 mm
Width	39.06 in / 992 mm
Height	1.57 in / 40 mm
Weight	40.79 lbs / 18.5 Kg
Glass	Low iron tempered with ARC
Frame	Black anodized aluminum
Junction Box	IP67
Connectors	MC4 Compatible

### Thermal Characteristics

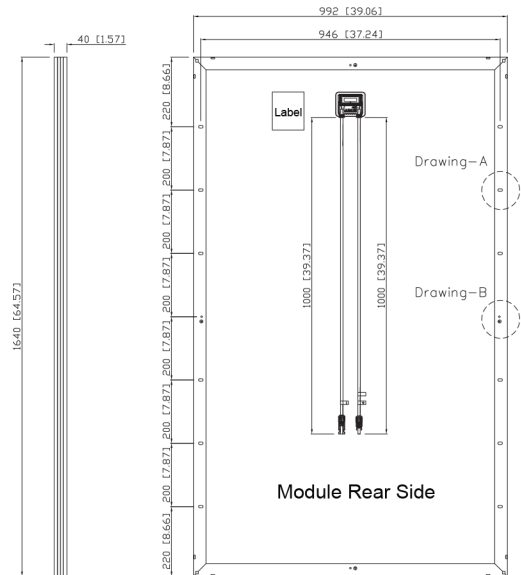
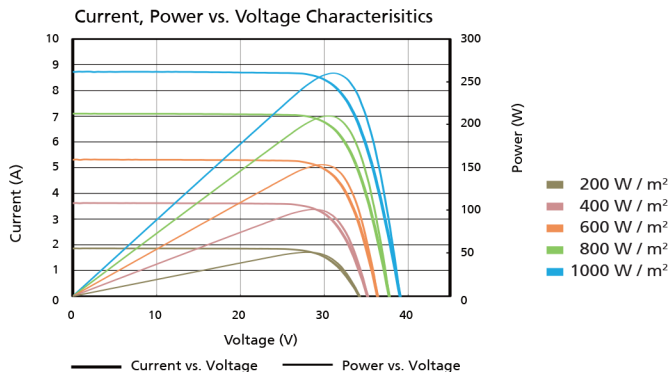
NOCT*	113.18°F / 45.1°C
TC I <sub>sc</sub>	+0.073 % / °C
TC V <sub>oc</sub>	-0.310 % / °C
TC P <sub>max</sub>	-0.431 % / °C

\*NOCT: Nominal Operating Cell Temperature  
800 W/m<sup>2</sup>, AM 1.5, Ambient Temperature 20°C, Wind Speed 1 m/s

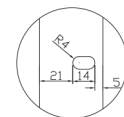
### System Integration Parameters

Maximum DC system voltage	1000 V (IEC / UL)
Maximum series fuse	15 A
Number of bypass diodes	3
Snow load	112 psf / 5,400 Pascal
Wind load	50 psf / 2,400 Pascal
Operating range	-40 to 185°F / -40 to 85°C
Fire performance	Type 2 (UL 1703)

### IV Curve

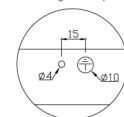


Installation hole



Drawing-A 5:1

Grounding hole/mark



Drawing-B 5:1