

# SEAC60T

DUAL GLASS MODULE | PERC MONOCRYSTALLINE CELLS

**Almaden**<sup>®</sup>  
Morocco

**18.80%**  
EFFICIENCY\*

**270-310W**  
OUTPUT POWER

**60**  
CELLS

\*for 310W panel

## MAIN PARAMETERS

**19.6KG**  
WEIGHT

**5MM**  
THICKNESS

**1662 x 990MM**  
DIMENSIONS

## KEY FEATURES



**EXTENDED WARRANTY**  
12 years product warranty on workmanship & materials, 30 years warranty on linear power output.



**FIRE RESISTANT**  
Class A fire protection. Glass-glass design helps to save module from damages caused by arc and hot spots, eliminating potential dangers of fire.



**PID FREE**  
Guaranteed free of PID (potential induced degradation).



**FREE OF MICRO CRACKS**  
Fully symmetrical structure to prevent micro cracks. No micro cracks under harsh transportation, complicated handling and installation conditions, and during lifetime of module operation.



**ULTRA LIGHT & ULTRA THIN**  
No frame, no back sheet. 2mm thermally tempered glass exclusively used as front and back protection material.



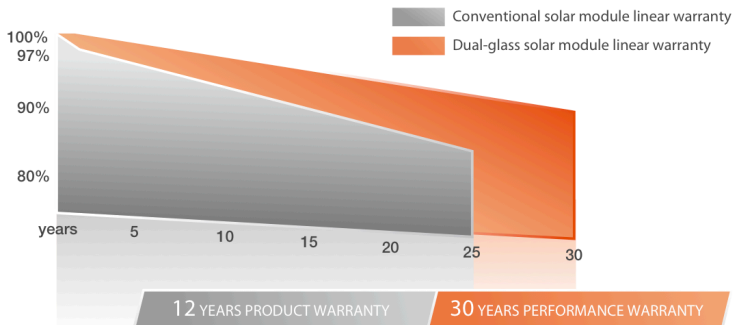
**EASY CLEANING**  
Frameless design, no dust trapped on the edge. The nano coating which is applied during the anti-reflection treatment process ensures a surface where dirt particles roll off.



**OUTSTANDING PERFORMANCE**  
Certified to withstand high wind loads of 2400Pa and snow loads of 5400Pa.



## LINEAR WARRANTY



## PACKAGING CONFIGURATION

Modules per box	38 pieces
Modules per 20' container	456 pieces
Modules per 40' container	988 pieces

### \* Declaration:

The technical specifications in this document may be slightly biased and Almaden does not guarantee its complete accuracy. Due to continuous technological innovation and product optimization, Almaden reserves the right to adjust the specification in this document at any time without prior notice. When signing a contract, the client should obtain the latest product datasheet as part of a binding contract.



Version: AM-JAN-21

### ELECTRICAL SPECIFICATION (STC)

Rated Power (Pmpp)	270 W	275 W	280 W	285 W	290 W	295 W	300 W	305 W	310 W
Power Output Tolerance (W)	0~+5								
Rated Current (Imp) (A)	8.71	8.75	8.89	9.04	9.12	9.23	9.26	9.32	9.44
Rated Voltage (Vmpp) (V)	31.37	31.46	31.57	31.62	31.84	31.97	32.4	32.73	32.84
Short Circuit Current (Isc) (A)	9.13	9.18	9.27	9.43	9.55	9.67	9.73	9.78	9.94
Open Circuit Voltage (Voc) (V)	39.14	39.24	39.38	39.49	39.67	39.79	39.87	39.92	39.98
Efficiency	16.4%	16.7%	17.0%	17.3%	17.6%	17.9%	18.2%	18.5%	18.8%

### ELECTRICAL DATA (NOCT)

Maximum Power (Pmax) (W)	217.6	221.29	224.98	228.67	232.36	236.05	239.74	243.43	247.12
Maximum Power Current (Imp) (A)	7.21	7.27	7.33	7.39	7.45	7.51	7.57	7.63	7.69
Maximum Power Voltage (Vmp) (V)	30.18	30.44	30.7	30.96	31.22	31.48	31.74	32	32.26
Short Circuit Current (Isc) (A)	7.73	7.76	7.79	7.82	7.85	7.88	7.91	7.94	7.97
Open Circuit Voltage (Voc) (V)	36.98	37.06	37.14	37.22	37.3	37.38	37.46	37.54	37.62

NOCT : Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20 , Wind Speed 1m/s.

### MECHANICAL SPECIFICATION

Cell Type	Perc Monocrystalline
Cell Dimension (mm)	156.75 x 156.75
Module Dimension (mm)	1662±2 x 990±2 x 5 (without J-Box)
Weight Size	19.6kg
Front Glass	2mm thermally tempered AR glass
Encapsulant	POE
Back Glass	2mm thermally tempered glass
Junction box	IP68 (three bypass diodes)
Cable	4mm <sup>2</sup>
Connector	MC4 / MC4 equivalent

### TEMPERATURE COEFFICIENT

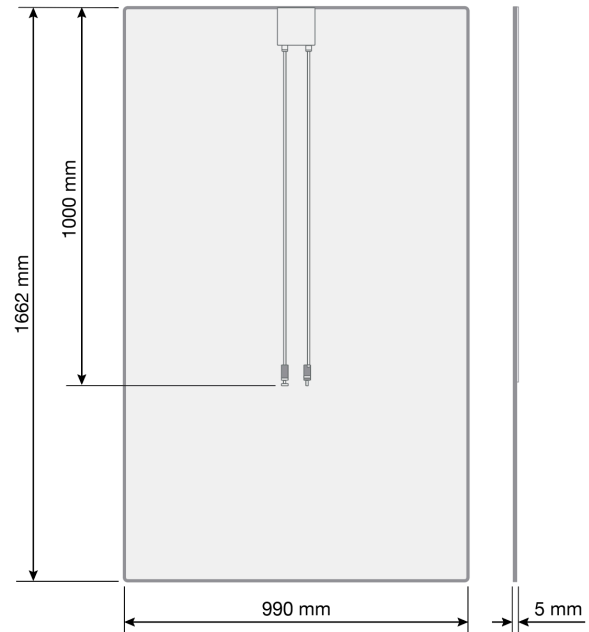
NOCT (Normal Operating Cell Temperature)	45±2°C
Temperature Coe cient of Isc (α)	0.06%/°C
Temperature Coe cient of Voc (β)	- 0.3%/°C
Temperature Coe cient of Pmpp (γ)	- 0.39%/°C

### OPERATING CONDITIONS

Operational Temperature	-40~+85°C
Maximum Static Load	3600Pa
Maximum Wind Load	1600Pa
Maximum System Voltage	IEC:1000/1500V
Maximum Series Fuse Rating	20A

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

### DIMENSIONS



### I-V & P-V CURVE

