



Datasheet

Crystalline PV Module

CHSM 5612M



175 180 185 190 195

ELECTRICAL SPECIFICATIONS

STC rated output (P_{mpp})	175 Wp	180 Wp	185 Wp	190 Wp	195 Wp
PTC rated output	155.2 Wp	159.7 Wp	164.3 Wp	168.9 Wp	173.5 Wp
Standard sorted output	$(P_{mpp} + 2.5 \text{ Wp}) > P_{flash} \geq (P_{mpp} - 2.5 \text{ Wp})$				
Measurement Tolerance	+/- 3%	+/- 3%	+/- 3%	+/- 3%	+/- 3%
Warranted power output STC ($P_{mpp \text{ min}}$)	172.5 Wp	177.5 Wp	182.5 Wp	187.5 Wp	192.5 Wp
Rated voltage (V_{mpp}) at STC	35.65 V	36.02 V	36.38 V	36.74 V	37.10 V
Rated current (I_{mpp}) at STC	4.92 A	5.00 A	5.09 A	5.17 A	5.25 A
Open circuit voltage (V_{oc}) at STC	44.63 V	44.88 V	45.12 V	45.37 V	45.62 V
Short circuit current (I_{sc}) at STC	5.23 A	5.31 A	5.39 A	5.47 A	5.55 A
Module Efficiency	13.7%	14.1%	14.5%	14.9%	15.3%
Rated output (P_{mpp}) at NOCT	116.4 Wp	119.7 Wp	123.0 Wp	126.3 Wp	129.6 Wp
Rated voltage (V_{mpp}) at NOCT	31.73 V	32.12 V	32.43 V	32.79 V	33.15 V
Rated current (I_{mpp}) at NOCT	3.67 A	3.73 A	3.79 A	3.85 A	3.91 A
Open circuit voltage (V_{oc}) at NOCT	40.02 V	40.24 V	40.46 V	40.68 V	40.91 V
Short circuit current (I_{sc}) at NOCT	3.97 A	4.03 A	4.09 A	4.15 A	4.22 A

Temperature coefficient α (P_{mpp})	- 0.480%/K
Temperature coefficient β (I_{sc})	+ 0.062%/K
Temperature coefficient δ (I_{mpp})	- 0.022%/K
Temperature coefficient ϵ (V_{mpp})	- 0.462 %/K
Temperature coefficient \times (V_{oc})	- 0.355%/K
Normal Operating Cell Temperature (NOCT)	48°C

Maximum system voltage SCII	1000 Vdc
Maximum system voltage NEC	600 Vdc
Number of Diodes	3 for IEC/ 6 for UL
Max. series fuse rating	10 A



QUALIFICATION AND WARRANTIES

Product standard	IEC 61215, 61730 / UL 1703
Extended product warranty	5 years
Output warranty of 90% performance P_{mpp} (STC)	10 years
Output warranty of 80% performance P_{mpp} (STC)	25 years

CELL TECHNOLOGY

Cell type	monocrystalline
Number of cells / cell arrangement	72 / 6 x 12
Cells Dimension	5"

MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	1580 x 808 x 45 mm 62.20 x 31.81 x 1.77 inch
Frame technology	Aluminum , silver anodized
Module compound	Glass / EVA / Backsheet (white)
Weight (module only)	15.5 kg / 34.1 lbs
Front glass thickness	3.2 mm / 0.13 inch
Junction Box IP rating	IP 65
Cable length / diameter (UL)	1000 mm / 39.37 inch / 12 AWG
Cable length / diameter (IEC)	1000 mm / 39.37 inch / 4 mm ²
Maximum load capacity (Pa)	5400 Pa
Fire Class	C
Connector type (UL)	Multi Contact Type 4
Connector type (IEC)	MC Type 4 compatible

MISCELLANEOUS

Packing unit	22 modules
Weight of packing unit	390 kg / 858 lbs

ARTICLE NUMBER (per panel)

Power Class	Article No.(IEC)	Article No.(UL)
175 Wp	100017	100022
180 Wp	100018	100023
185 Wp	100019	100024
190 Wp	100020	100025
195 Wp	100021	100026

MODULE DIMENSION DETAILS

Front View	Side View	Back View	Frame Cross Section
			