

Datasheet

Crystalline PV Module

CHSM6612P

265 270 275 280 285 290 295

ELECTRICAL SPECIFICATIONS

	265 Wp	270 Wp	275 Wp	280 Wp	285 Wp	290 Wp	295 Wp
STC rated output (P_{mpp})	265 Wp	270 Wp	275 Wp	280 Wp	285 Wp	290 Wp	295 Wp
PTC rated output	238.0 Wp	242.6 Wp	247.2 Wp	251.8 Wp	256.5 Wp	261.1 Wp	265.7 Wp
Standard sorted output	(P _{mpp} + 5 Wp) > P _{flash} ≥ P _{mpp}						
Measurement tolerance	+/- 3%	+/- 3%	+/- 3%	+/- 3%	+/- 3%	+/- 3%	+/- 3%
Warranted power output STC ($P_{mpp, min}$)	265 Wp	270 Wp	275 Wp	280 Wp	285 Wp	290 Wp	295 Wp
Rated voltage (V_{mpp}) at STC	35.54 V	35.57 V	35.60 V	35.63 V	35.66 V	35.68 V	35.72 V
Rated current (I_{mpp}) at STC	7.48 A	7.62 A	7.76 A	7.90 A	8.04 A	8.15 A	8.30 A
Open circuit voltage (V_{oc}) at STC	44.24 V	44.38 V	44.51 V	44.64 V	44.77 V	44.90 V	45.03 V
Short circuit current (I_{sc}) at STC	8.27 A	8.42 A	8.56 A	8.71 A	8.86 A	8.94 A	9.16 A
Module efficiency	13.6%	13.9%	14.1%	14.4%	14.7%	14.9%	15.2%
Rated output (P_{mpp}) at NOCT	185.1 Wp	188.5 Wp	192.0 Wp	195.5 Wp	199.0 Wp	202.5 Wp	206.0 Wp
Rated voltage (V_{mpp}) at NOCT	32.37 V	32.38 V	32.38 V	32.38 V	32.39 V	32.51 V	32.47 V
Rated current (I_{mpp}) at NOCT	5.72 A	5.82 A	5.93 A	6.04 A	6.14 A	6.23 A	6.34 A
Open circuit voltage (V_{oc}) at NOCT	40.59 V	40.72 V	40.84 V	40.96 V	41.08 V	41.20 V	41.32 V
Short circuit current (I_{sc}) at NOCT	6.40 A	6.51 A	6.62 A	6.74 A	6.85 A	6.91 A	7.09 A

Temperature coefficient α (P_{mpp})	-0.451%/K
Temperature coefficient β (I_{sc})	+0.087%/K
Temperature coefficient δ (I_{mpp})	+0.007%/K
Temperature coefficient ϵ (V_{mpp})	-0.445%/K
Temperature coefficient χ (V_{oc})	-0.332%/K
Normal operating cell temperature (NOCT)	46°C

Maximum system voltage SCII	1000 V _{DC}
Maximum system voltage NEC	600 V _{DC}
Number of diodes	6
Maximum series fuse rating	15 A



QUALIFICATION AND WARRANTIES

Product standard	IEC 61215, 61730 / UL 1703
Extended product warranty	10 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	polycrystalline
Number of cells / cell arrangement	72 / 6 x 12
Cells dimension	6"

MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	1956 x 994 x 50 mm 77.01 x 39.13 x 1.97 in
Frame technology	Aluminum, silver anodized
Module composition	Glass / EVA / Backsheet (white)
Weight (module only)	23.5 kg / 51.7 lbs
Front glass thickness	3.2 mm / 0.13 in
Junction box IP rating	IP 65
Cable length / diameter (UL)	1000 mm / 39.37 in / 12 AWG
Cable length / diameter (IEC)	1000 mm / 39.37 in / 4 mm ²
Maximum load capacity	5400 Pa
Fire class	C
Connector type (TUV)	MCType 4 compatible

MISCELLANEOUS

Packing unit	20 modules
Weight of packing unit	528 kg / 1162 lbs

ARTICLE NUMBER (per panel)

Power class	Article No. (IEC)	Article No. (UL)
265 Wp	200030	200037
270 Wp	200031	200038
275 Wp	200032	200039
280 Wp	200033	200040
285 Wp	200034	200041
290 Wp	200035	200042
295 Wp	200036	200043

MODULE DIMENSION DETAILS

Front view	Side view	Back view	Frame cross section

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Specifications and designs included in this datasheet are subject to change without notice.