



Datasheet

Thin Film PV Module CHSM5001T



100	105	110	115	120
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ELECTRICAL SPECIFICATIONS

STC rated output (P_{mpp})*	100 Wp	105 Wp	110 Wp	115 Wp	120 Wp
PTC rated output (P_{mpp})**	91.5 Wp	96.1 Wp	100.7 Wp	105.3 Wp	110.0 Wp
Sorted output	-0/+5 Wp				
Warranted power output STC ($P_{mpp\ min}$)	100 Wp	105 Wp	110 Wp	115 Wp	120 Wp
Rated voltage (V_{mpp}) at STC	84.20 V	87.45 V	89.46 V	92.70 V	94.44 V
Rated current (I_{mpp}) at STC	1.188 A	1.199 A	1.230 A	1.240 A	1.269 A
Open circuit voltage (V_{oc}) at STC	127.1 V	127.1 V	129.1 V	132.1 V	133.1 V
Short circuit current (I_{sc}) at STC	1.499 A	1.519 A	1.519 A	1.529 A	1.529 A
Initial open circuit voltage (V_{oc}) at STC	132.9 V	132.9 V	134.9 V	138.0 V	139.0 V
Initial short circuit current (I_{sc}) at STC	1.546 A	1.546 A	1.566 A	1.576 A	1.576 A
Module efficiency	6.99%	7.34%	7.69%	8.04%	8.39%
Rated output (P_{mpp}) at NOCT	80 Wp	84 Wp	88 Wp	92 Wp	96 Wp
Rated voltage (V_{mpp}) at NOCT	82.5 V	85.7 V	87.7V	90.8 V	92.6 V
Rated current (I_{mpp}) at NOCT	0.97A	0.98 A	1.003 A	1.013 A	1.037 A
Open circuit voltage (V_{oc}) at NOCT	124.6 V	124.6 V	126.5V	129.5 V	130.4 V
Short circuit current (I_{sc}) at NOCT	1.206 A	1.222 A	1.222 A	1.231 A	1.231 A
Temperature coefficient (P_{mpp})	- 0.27%/K	Maximum system voltage SCII		1000 V _{dc}	
Temperature coefficient (I_{sc})	+ 0.05 %/K	Maximum system voltage NEC		600 V _{dc}	
Temperature coefficient (I_{mpp})	+0.08%/K	Number of diodes		1	
Temperature coefficient (V_{mpp})	- 0.35%/K	Maximum series fuse rating		3 A	
Temperature coefficient (V_{oc})	- 0.31%/K				
Normal operating cell temperature (NOCT)	43±3°C				

* Measurement tolerance +/- 3%
 ** Estimated



QUALIFICATION AND WARRANTIES

Product standard	UL 1703 / IEC 61646
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
MunichRe Warranty	25 years

CELL TECHNOLOGY

Cell type	a-Si:H / μ c-Si:H Tandem
Number of cells / cell arrangement	99
cell length x width	1266 x 10.53 mm

MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	1300 x 1100 x 6.8 mm 51.18 x 43.31 x 0.27 in
Frame technology	Frameless
Module composition	Glass / PVB / Glass
Weight (module only)	26.8 kg / 59.1 lbs
Front glass thickness	3.2 mm
Junction box IP rating	IP 65
Cable length / diameter (UL)	700 mm / 27.56 in / 12 AWG
Cable length / diameter (IEC)	1000 mm / 39.37 in / 2.5 mm ²
Maximum load capacity	2400 Pa
Fire class	C
Connector type (UL)	MC type 4 compatible
Connector type (TUV)	MC type 4 compatible

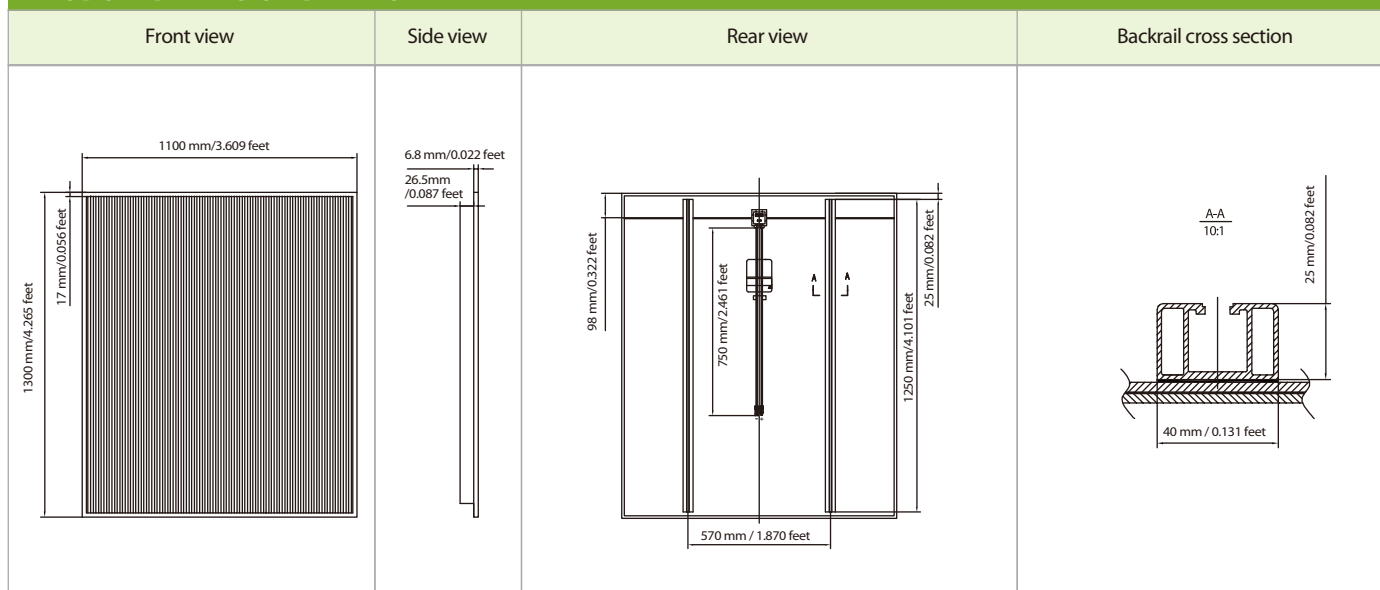
MISCELLANEOUS

Packing unit	732 kg / 1615 lbs
Weight of packing unit	

ARTICLE NUMBER (per panel)-CHSM5001T

Model	ArticleNo. (IEC)	ArticleNo. (UL)
CHSM5001T-100	300010	300015
CHSM5001T-105	300011	300016
CHSM5001T-110	300012	300017
CHSM5001T-115	300013	300018
CHSM5001T-120	300014	300019

MODULE DIMENSION DETAILS



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