

220

235 240 245

ELECTRICAL SPECIFICATIONS

STC rated output (Pmpp)	220 Wp	225 Wp	230 \	Wp	235 Wp	240 Wp	245 Wp	250 Wp
PTC rated output	199.9 Wp	204.6 Wp	209.2	2 Wp	213.9 Wp	218.5 Wp	223.2 Wp	227.9 Wp
Standard sorted output				(Pmpp + 2.5 Wp) > Prlash ≥ (Pmpp - 2.5 Wp)				
Measurement Tolerance	+/- 3%	+/- 3%	+/- 3	%	+/- 3%	+/- 3%	+/- 3%	+/- 3%
Warranted power output STC $(P_{mpp min})$	217.5 Wp	222.5 Wp	227.5	5 Wp	232.5 Wp	237.5 Wp	242.5 Wp	247.5 Wp
Rated voltage (Vmpp) at STC	28.02 V	28.40 V	28.78	8 V	29.16 V	29.54 V	29.92 V	30.30 V
Rated current (I_{mpp}) at STC	7.86 A	7.92 A	7.99	A	8.06 A	8.13 A	8.20 A	8.27 A
Open circuit voltage (V_{oc}) at STC	36.92 V	37.14 V	37.3	5 V	37.56 V	37.77 V	37.98 V	38.19 V
Short circuit current (I_{sc}) at STC	8.46 A	8.49 A	8.53	A	8.56 A	8.59 A	8.62 A	8.65 A
Module Efficiency	13.4%	13.7%	14.0	%	14.3%	14.6%	14.9%	15.2%
Rated output (Pmpp) at NOCT	165.0 Wp	168.8 Wp	172.5	5 Wp	176.3 Wp	180.0 Wp	183.8 Wp	187.5 Wp
Rated voltage (V_{mpp}) at NOCT	25.36 V	25.74 V	26.08	8 V	26.42 V	26.75 V	27.06 V	27.37 V
Rated current (Impp) at NOCT	6.51 A	6.56 A	6.61	A	6.67 A	6.73 A	6.79 A	6.85 A
Open circuit voltage (V $_{oc}$) at NOCT	33.73 V	33.93 V	34.12	2 V	34.31 V	34.50 V	34.70 V	34.89 V
Short circuit current (I_{sc}) at NOCT	7.12 A	7.15 A	7.18	A	7.21 A	7.23 A	7.26 A	7.28A
Temperature coefficient α (P _{mpp})	- 0.469	- 0.469%/K		Maxim	Maximum system voltage SCII		1000 Vdc	
Termperature coefficient β (Isc)	+ 0.052%/K - 0.008%/K - 0.463 %/K			Maximum system voltage NEC		600 Vdc		
Temperature coefficient δ (Impp)				Numb	er of Diodes		6	
Temperature coefficient ε (V _{mpp})				Max. series fuse rating		15 A		
Termperature coefficient \times (V _{oc})	- 0.344	%/K						
Normal Operating Cell Temperature (NOCT)	43 <i>°</i> C							





ASTRONERGY

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 $P_{mpp}\left(STC\right)$	25 years

1652 x 994 x 45 mm

65.04 x 39.13 x 1.77 inch

Aluminum, silver anodized

Glass / EVA / Backsheet (white)

CELL TECHNOLOGY

Cell type	polycrystalline
Number of cells / cell arrangement	60 / 6 x 10
Cells Dimension	6"

MECHANICAL SPECIFICATIONS

Outer dimensions (L \times W \times H)

Frame technology

Module compound

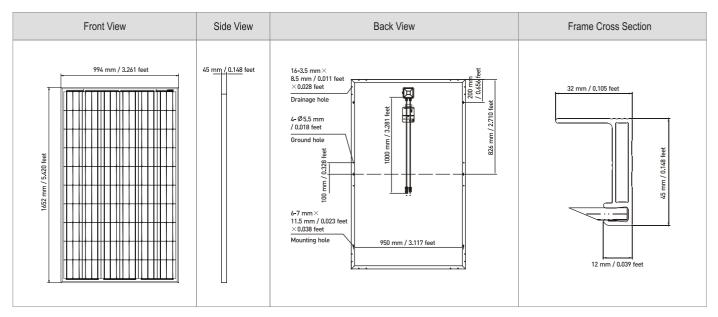
MISCELLANEOUS

Packing unit	22 modules
Weight of packing unit	480 kg / 1056 lbs

ARTICLE NUMBER (ner nanel)

Weight (module only) 20	0 kg / 44.0 lbs	ARTICLE NUMBER (per panel)		
Front glass thickness 3.	.2 mm / 0.13 inch	Power Class	Article No.(IEC)	Article No.(UL)
Junction Box IP rating IP	P 65	220 Wp	200016	200023
Cable length / diameter (UL) 10	000 mm / 39.37 inch / 12 AWG	225 Wp	200017	200024
Cable length / diameter (IEC) 10	000 mm / 39.37 inch / 4 mm²	230 Wp	200018	200025
Maximum load capacity 54	400 Pa	235 Wp	200019	200026
Fire Class C		240 Wp	200020	200027
Connector type (UL) M	lulti Contact Type 4	245 Wp	200021	200028
Connector type (TUV) M	IC Type 4 compatible	250 Wp	200022	200029

MODULE DIMENSION DETAILS



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