ASTRO 4 Twins

Create Sustainable and Efficient Green Energy





ELECTRICAL SPECIFICATIONS

Power rating (front)	435	Wp	440 Wp		445 Wp		450 Wp		455 Wp	
Testing Condition	Front	Back	Front	Back	Front	Back	Front	Back	Front	Back
STC rated output (Pmpp/Wp)	435	304	440	308	445	311	450	315	455	318
Rated voltage (V _{mpp} /V) at STC	40.85	41.64	41.12	41.85	41.36	42.03	41.59	42.28	41.82	42.34
Rated current (Impp/A) at STC	10.65	7.30	10.70	7.36	10.76	7.40	10.82	7.45	10.88	7.51
Open circuit voltage (Voc/V) at STC	48.90	47.56	49.11	47.83	49.44	47.99	49.78	48.25	50.07	48.42
Short circuit current (Isc/A) at STC	11.12	7.99	11.20	8.05	11.25	8.10	11.3	8.16	11.36	8.21
Module efficiency	20.0%	14.0%	20.2%	14.2%	20.5%	14.3%	20.7%	14.5%	20.9%	14.6%
Temperature coefficient (Pmpp)	- 0.35%/°C									
Temperature coefficient (Isc)	+0.035%/°C									
Temperature coefficient (Voc)	- 0.28%/°C									
Nominal module operating temperature (NMOT)	41±2°C									
Maximum system voltage (IEC/UL)	1500V _{DC}									
Number of diodes	3									
Junction box IP rating	IP 68									
Maximum series fuse rating	20 A									
* Massurement tolerance +/ 3%										

* Measurement tolerance +/- 3% STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5

ELECTRICAL SPECIFICATIONS (Integrated power)						
P _{mpp} gain	Pmpp	Vmpp	Impp	Voc	lsc	
5%	462 Wp	41.12 V	11.24 A	49.11 V	11.69 A	
10%	484 Wp	41.12 V	11.77 A	49.11 V	12.24 A	
15%	506 Wp	41.12 V	12.31 A	49.11 V	12.80 A	
20%	528 Wp	41.02 V	12.87 A	49.21 V	13.33 A	
25%	550 Wp	41.02 V	13.41 A	49.21 V	13.88 A	

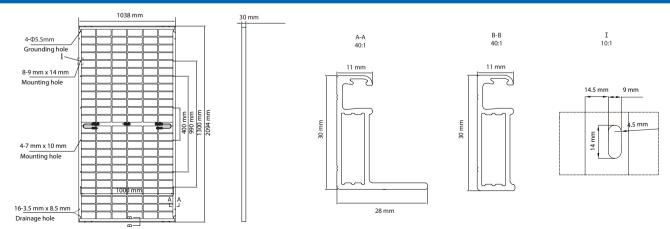
* Measurement tolerance +/- 3%

Electrical characteristics with different rear power gain (reference to 440W)

MECHANICAL SPECIFICATIONS					
Outer dimensions (L x W x H)	2094 x 1038 x 30 mm				
Frame technology	Aluminum, silver anodized				
Glass thickness	2.0 mm				
Cable length (IEC/UL)	Portrait: 300 mm Landscape: 1300 mm				
Cable diameter (IEC/UL)	4 mm² / 12 AWG				
^① Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back)				
Connector type (IEC/UL)	HCB40 / MC4-EVO2				

[©] Refer to Astronergy crystalline installation manual or contact technical department. Maximum Mechanical Test Load=1.5×Maximum Mechanical Design Load.

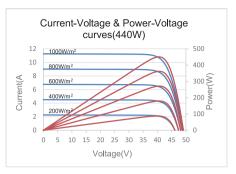
MODULE DIMENSION DETAILS

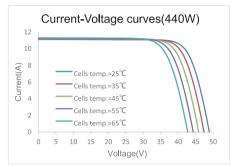


Made in Zhejiang, Jiangsu and Anhui of China, Made in Sincan/ Ankara of Turkey

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CURVE





PACKING SPECIFICATIONS				
^① Module Weight	27.5 kg			
² Packing unit	36 pcs / box			
Weight of packing unit (for 40'HQ container)	1035 kg			
Number of modules per 40'HQ container	792 pcs			

© Tolerance +/- 1.0kg [©] Subject to sales contract