Technical Specifications - Multi Crystalline

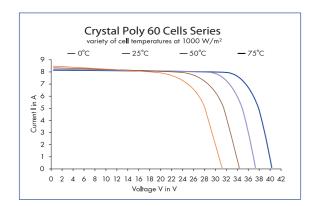


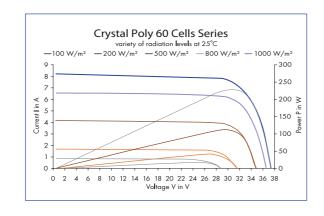
60 CELLS MODULES

Rated power at STC ¹	250Wp	255Wp	260Wp	265Wp	270Wp	275Wp			
Module efficiency at STC ²	15.40%	15.71%	16.01%	16.32%	16.63%	16.94%			
Open circuit voltage - Voc (Volts)	37.6	37.8	38.0	38.3	38.60	38.90			
Short circuit current - Isc (Amps)	8.66	8.78	8.92	9.04	9.17	9.29			
Max power voltage - Vpm (Volts)	30.3	30.5	30.6	30.8	30.9	31.1			
Max power current - Ipm (Amps)	8.25	8.37	8.50	8.61	8.74	8.85			
¹ The measurement tolerance of the rated power is ± 3 ² At low irradiance (200 W/m², 25°C and AM 1.5									
Electrical data at 800 W/m ² , NOCT, 1 m/s wind sp									
Rated power (Pmax)	186	189	193	197	200	204			
Open-circuit voltage (Voc)	35.3	35.3	35.4	35.5	35.5	35.6			
Short-circuit current (Isc)	7.10	7.17	7.27	7.35	7.41	7.47			
Rated voltage (Vmpp)	28.1	28.2	28.4	28.6	28.7	29.0			
Rated current (Impp)	6.63	6.71	6.81	6.89	6.97	7.03			
Thermal data									
Temperature coefficient open-circuit voltage		– 0.34 %/K							
Temperature coefficient short-circuit current		+ 0.05 %/K							
Temperature coefficient rated power		- 0.4 %/K							
NOCT (normal operating cell temperature)			46°	± 2°C					
Mechanical data									
Number of cells and cell type	60	60 Multi crystalline solar cells (156.75 mm x 156.75 mm)							
Dimensions: length x width x height		1640 mm x 990 mm x 35mm							
Weight		18 kg							
Front glass	3.2	3.2 mm high transmission, tempered glass							
Embedding		EAV							
Back sheet		Composite film, white							
Junction box		protection class IP 65/67							
Number of bypass diodes		3							
Cables		4 mm²solar cables, length 1200 mm							
Connectors		MC4 compatible							
Permissible operating conditions									
Operating temperature range			– 40°C to 85	5°C					
Max. System voltage		1	000 V DC						
Max. Reverse current		2	10 A						
Maximum surface load capacity			100 Pa						
Resistance against hail	1	Max Ø 24 mm with impact speed of 83 km/h							
Protection class	,	2 7 11111							
FTOIRCHOIL CIGSS			II						

^{*} Refer Emmvee standard warranty terms and conditions.

** On availability of stock





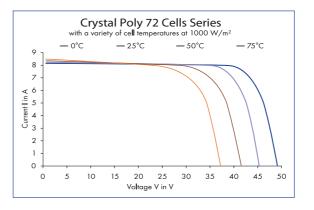
72 CELLS MODULES

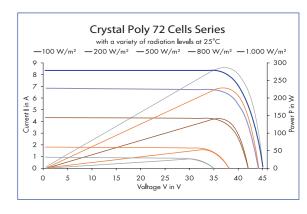
Rated power at STC ¹	310Wp	315Wp	320Wp	325Wp	330Wp	335Wp			
Module efficiency at STC ²	15.89%	16.15%	16.41%	16.66%	16.92%	17.18%			
Open circuit voltage - Voc (Volts)	45.2	45.4	45.7	45.8	45.9	46.0			
Short circuit current - Isc (Amps)	8.95	9.01	9.06	9.11	9.20	9.31			
Max power voltage - Vpm (Volts)	36.4	36.7	37.1	37.4	37.7	37.8			
Max power current - Ipm (Amps)	8.53	8.58	8.63	8.68	8.76	8.86			
¹ The measurement tolerance of the rated po ² At low irradiance (200 W/m², 25°C and									
Electrical data at 800 W/m ² , NOCT, 1 m/s		d and AM 1.5							
Rated power (Pmax)	230	234	238	242	246	249			
Open-circuit voltage (Voc)	42.2	42.3	42.5	42.6	42.7	42.9			
Short-circuit current (Isc)	7.15	7.27	7.35	7.47	7.57	7.58			
Rated voltage (Vmpp)	34.3	34.3	34.4	34.5	34.6	34.9			
Rated current (Impp)	6.72	6.83	6.91	7.02	<i>7</i> .11	7.14			
Thermal data									
Temperature coefficient open-circuit voltage	– 0.34 %/K								
Temperature coefficient short-circuit current	+ 0.05 %/K								
Temperature coefficient rated power	– 0.4 %/K								
NOCT (normal operating cell temperature)			46° ± 2° C	2					
Number of cells and cell type	72 Multi crystalline solar cells (156 mm x 156 mm)								
Dimensions: length x width x height	1970 mm x 990 mm x 35mm								
Weight	22 kg								
Front glass	3.2 mm high transmission, tempered glass								
Embedding	EVA								
Back sheet	Composite film, white								
Junction box	protection class IP 65/67								
Number of bypass diodes	3								
Cables	4 mm² solar cables, length 1000 mm								
Connectors	MC4 compatible								
Permissible operating conditions									
Operating temperature range		-	40° C to 85°	С					
Max. System voltage	1000 V DC								
Max. Reverse current	20 A								
Maximum surface load capacity	5400 Pa								
Resistance against hail	Max Ø 24 mm with impact speed of 83 km/h								
Protection class			<u> </u>						

Refer Emmvee standard warranty terms and conditions.

* * On availability of stock

Note 1: The specification - graphical representation made herein may deviate slightly and are not guranteed due to on-going innovation, research and product enhancement. We reserve the right to make any modifications to the information contained herein at any time without notice. Always obtain the most recent revision of datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein. Note 2: It is mandatory to make negative grounding of modules in all installation to avoid PID Issue.





EMMVEE Photovoltaic Power Private Limted

Address: # 13/1, International Airport Road, Bettahalasur Post, Bengaluru - 562 157, India Tel: +91 80 2217 4511 Email: info@emmvee.in Website: www.emmvee.com

Note 1: The specification - graphical representation made herein may deviate slightly and are not guranteed due to on-going innovation, research and product enhancement. We reserve the right to make any modifications to the information contained herein at any time without notice. Always obtain the most recent revision of datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.