Technical Specifications - Mono Crystalline

60 CELLS MODULES

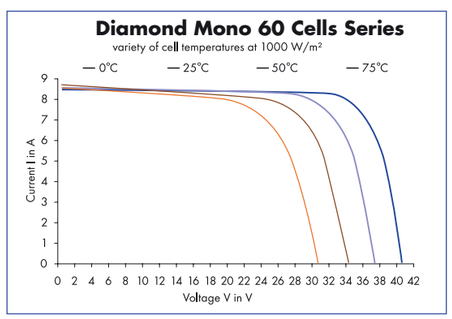
Electrical data at 1000W/m², 25°					
Rated power at STC[1]	270Wp	275Wp	280Wp	285Wp	290Wp
Module efficiency at STC[2]	16.63%	16.94%	17.25%	17.55%	17.86%
Open circuit voltage - Voc (Volts)	38.4	38.7	39.0	39.3	39.5
Short circuit current - Isc (Amps)	9.17	9.29	9.40	9.55	9.69
Max power voltage - Vpm (Volts)	31.2	31.4	31.6	31.6	31.7
Max power current - Ipm (Amps)	8.65	8.76	8.87	9.01	9.15
[1] The measurement tolerance of the rated power is ± 3%. The modules delivered are sorted in a range of ± 2.5 Wp. [2] At low irradiance (200 W/m², 25°C and AM 1.5) the module yields at least 96% of the STC efficiency.					
Electrical data at 800 W/m², NOCT, 1 m/s wind speed and AM 1.5					
Rated power (Pmax)	201	205	209	212	216
Open-circuit voltage (Voc)	35.7	36.0	36.3	36.6	36.7
Short-circuit current (Isc)	7.41	7.48	7.55	7.63	7.67
Rated voltage (Vmpp)	28.9	29.2	29.4	29.6	29.9
Rated current (Impp)	6.96	7.02	7.10	7.17	7.23
Thermal data					
Temperature coefficient open-circuit voltage	– 0.33 %/K				
Temperature coefficient short-circuit current	+ 0.04 %/K				
Temperature coefficient rated power	– 0.43%/K				
NOCT (normal operating cell temperature)	48° ± 2°C				
Mechanical data					
Number of cells and cell type	60 Mono 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 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 1200 mm				
Connectors	MC4 compatible				
Permissible operating conditions					
Operating temperature range	– 40° C to 85° C				
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	II				

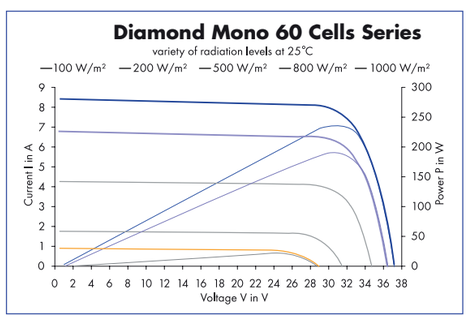
* Refer Emmvee standard warranty terms and conditions.

** 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.





72 CELLS MODULES

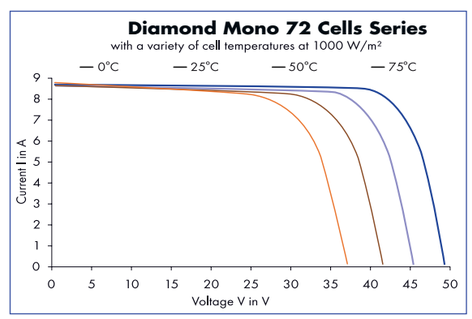
Electrical data at 1000W/m², 25°C and A.M 1.5 (STC in Accordance with IEC 60904-3)				
Rated power at STC[1]	325Wp	330Wp	335Wp	340Wp
Module efficiency at STC[2]	16.66%	16.92%	17.18%	17.43%
Open circuit voltage - Voc (Volts)	46.0	46.2	46.3	46.5
Short circuit current - Isc (Amps)	9.17	9.25	9.38	9.50
Max power voltage - Vpm (Volts)	37.6	37.8	37.9	37.9
Max power current - Ipm (Amps)	8.65	8.73	8.85	8.96
[1] The measurement tolerance of the rated power is ± 3%. The modules delivered are sorted in a range of ± 2.5 Wp. [2] At low irradiance (200 W/m², 25°C and AM 1.5) the module yields at least 96% of the STC efficiency.				
Electrical data at 800 W/m², NOCT, 1 m/s wind speed and AM 1.5				
Rated power (Pmax)	242	246	250	257
Open-circuit voltage (Voc)	42.8	43.0	43.1	43.4
Short-circuit current (Isc)	7.41	7.49	7.56	7.67
Rated voltage (Vmpp)	34.8	34.9	35.1	35.5
Rated current (Impp)	6.97	7.04	7.12	7.25
Thermal data				
Temperature coefficient open-circuit voltage	– 0.33 %/K			
Temperature coefficient short-circuit current	+ 0.04 %/K			
Temperature coefficient rated power	– 0.43%/K			
NOCT (normal operating cell temperature)	48° ± 2°C			
Mechanical data				
Number of cells and cell type	72 Mono crystalline solar cells (156.75 mm x 156.75 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 1200 mm			
Connectors	MC4 compatible			
Permissible operating conditions				
Operating temperature range	– 40° C to 85° C			
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	II			

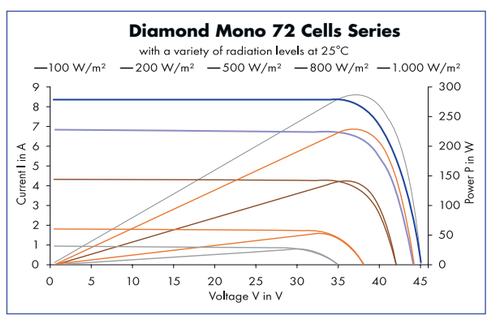
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EMMVEE Photovoltaic Power Private Limted
Address : # 13/1, International Airport Road, Bettahalasur Post, Bengaluru - 562 157, India
Tel : +91 80 2217 4511 **Email** : info@emmvee.in **Website** : www.emmvee.com