

Monocrystalline 120 cells

# MARS



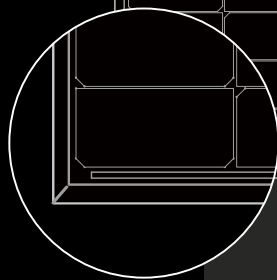
M6 166  
9BB



Guaranteed positive output tolerance of 0 ~ +5 Wp by single measuring



3.2 mm anti-reflective glass



BLACK | BLACK



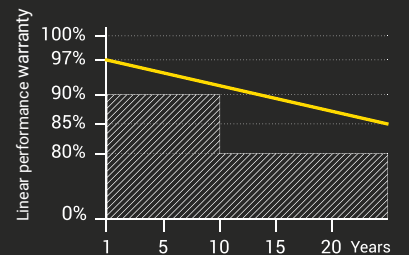
Maximum stability through aluminium soft grip frame



Maximum 5400 Pa snow load



15 years manufacturer's warranty  
25 years linear performance guarantee



## OUTPUT: 340 - 350 WATT

MARS monocrystalline 120 halfcut cell series with multibusbar M6 cells is the newest top efficiency series. Halfcut cells are split in two halves to improve the performance and they are arranged in two parallel strings for a better management of shading. MARS black | black edition with black backsheet and a 35 mm black anodized aluminium frame, combines visual attractiveness to conversion efficiency over 19 %.



power for a better world

Test uncertainty for Pmax: ±3 %  
Voc and Isc Tolerance: ±3 %

STC	A-HCM340/120	A-HCM350/120
Maximum Power (Pmax) (W)	340	350
Open Circuit Voltage (Voc) (V)	41.67	42.29
Short Circuit Current (Isc) (A)	10.47	10.69
Voltage at Maximum Power (Vmpp) (V)	34.55	34.90
Current at Maximum Power (Impp) (A)	9.84	10.03
Module Efficiency (%)	18.66	19.21

STC (Standard Testing Condition): Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25 °C, Spectra at AM 1.5

Electrical Parameters at NOCT	A-HCM340/120	A-HCM350/120
Maximum Power (Pmax) (W)	252	259
Open Circuit Voltage (Voc) (V)	38.18	38.87
Short Circuit Current (Isc) (A)	8.36	9.00
Voltage at Maximum Power (Vmpp) (V)	34.38	34.50
Current at Maximum Power (Impp) (A)	7.32	7.51

NOCT (Nominal Operating Cell Temperature): Irradiance 800 W/m<sup>2</sup>, Ambient Temperature 20 °C, Spectra at AM 1.5, Wind at 1 m/s

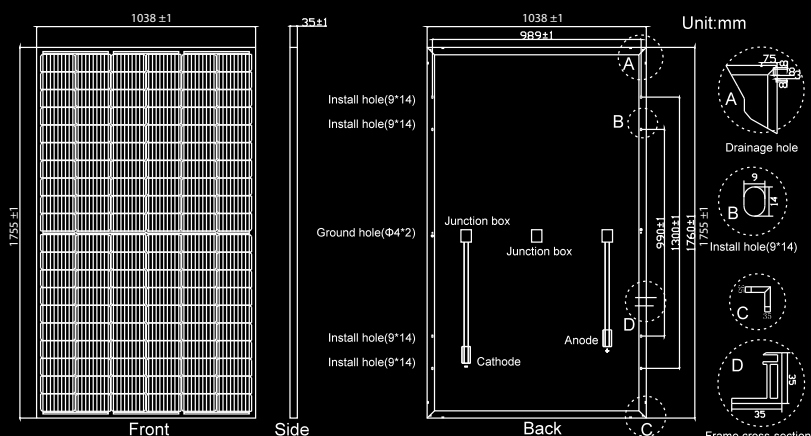
Temperature Characteristics	
Pmax Temperature Coefficients (W / °C)	-0.35 % / °C
Voc Temperature Coefficients (V / °C)	-0.28 % / °C
Isc Temperature Coefficients (A / °C)	+0.05 % / °C
Noct Nominal Operating Cell Temperature (°C)	45 ±2 °C

Specifications	
Cell Type	Mono M6 166 9BB
Weight	20 kg ±3 %
Dimensions	1755x1038x35 mm (±2 mm)
Cable Cross Section Size	4 mm <sup>2</sup> , cable approx 110 cm, QC4 compatible
No. of cells	120 (6x20)
Junction Box	IP67, 3 diodes
Frame	Black anodized aluminium
Front glass	3.2 mm high transmission, low iron, tempered glass

Operating Conditions	
Operating Module Temperature	-40 °C ~ +85 °C
Maximum System Voltage	1500 V
Maximum Series Fuse Rating	20 A
Power Tolerance	0 ~ +5 W
Maximum Static Load Front	5400 Pa
Maximum Static Load Back	2400 Pa
Application Class	Class A

Packing Details	
Container Type	40'HC
No. of Pallets	26
Pieces per Pallet	30
Total quantity of modules	780

(1755x1038x35)



I-V Curve: (A-HCM350)

