

PERC Technology

AEXXXHM6-72

AE SOLAR High Efficiency Monocrystalline Half-cut Cell Solar Module with Perc Technonoly

385-410W



Higher Module Efficiency

Brings 5-10W power gain due to half-cut production system



More Energy Yield

Lower NMOT and better temperature coefficient by lower cell series resistance, helps boost energy yield



Lower Operating Temperature, More Reliable

Lower operating temperature and hot spot temperature during the sunny day, making the module prevail during the sunny days



Better Shading Tolerance

Thanks to Paralleling circuit design, more power generated under shading condition and during morning & evening time

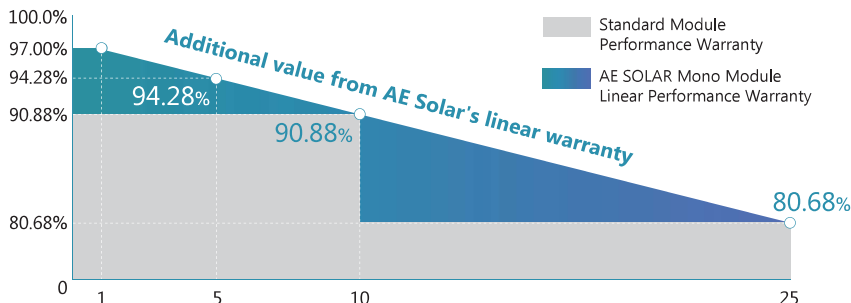


Better Micro Crack Resistance

Minimize the impact by micro crack by limiting cell damage and potentially extending area by half-cut module architecture



LINEAR PERFORMANCE WARRANTY



12years Product Material & Workmanship

25years Linear Performance Warranty

PERC Technology

AE SOLAR High Efficiency Monocrystalline Half-cut Cell Solar Module with Perc Technonoly

ELECTRICAL DATA @ STC*		AE385HM6-72	AE390HM6-72	AE395HM6-72	AE400HM6-72	AE405HM6-72	AE410HM6-72
Peak Power (Pmax)	(W)	385	390	395	400	405	410
Maximum Power Voltage (Vmp)	(V)	40.66	40.93	41.07	41.28	41.46	41.64
Maximum Power Current (Imp)	(A)	9.47	9.53	9.62	9.69	9.77	9.85
Open-circuit Voltage (Voc)	(V)	48.99	49.26	49.48	49.71	49.94	50.16
Short-circuit Current (Isc)	(A)	10.25	10.32	10.39	10.46	10.53	10.60
Module Efficiency	(%)	19.42	19.68	19.93	20.18	20.43	20.69
Operating Temperature		-40°C~+85°C					
Maximum System Voltage		1000V					
Maximum Series Fuse Rating		15A					
Application Class		Class A					
Power Tolerance		0~+3%					

*STC (Standard Test Condition): Irradiance 1000W/ m², Module Temperature 25°C, AM 1.5

ELECTRICAL DATA @ NMOT*		AE385HM6-72	AE390HM6-72	AE395HM6-72	AE400HM6-72	AE405HM6-72	AE410HM6-72
Peak Power (Pmax)	(W)	285	288	295	298	302	306
MPP Voltage (Vmp)	(V)	37.69	37.94	38.23	38.43	38.60	38.77
MPP Current (Imp)	(A)	7.55	7.60	7.70	7.76	7.82	7.89
Open Circuit Voltage (Voc)	(V)	46.26	46.51	46.87	47.09	47.31	47.52
Short Circuit Current (Isc)	(A)	8.27	8.33	8.38	8.44	8.50	8.55

*Under Nominal Module Operating Temperature (NMOT), Irradiance of 800W/ m², Spectrum AM 1.5, Ambient Temperature 20°C, Wind Speed 1m/s

TEMPERATURE CHARACTERISTICS

Temperature coefficient of Pmax		-0.38%/°C
Temperature coefficient of Voc		-0.31%/°C
Temperature coefficient of Isc		0.05%/°C
NMOT		41±3°C

MECHANICAL DATA

Cell Type		Mono-Crystalline, 156.75×78.38mm
Cell Arrangement		144pcs (2×(6×12))
Dimension (L×W×H)		2000×991×35mm
Weight		22kg
Front Cover		3.2mm Tempered Glass
Frame		Anodized Aluminium Alloy
Junction Box		IP68, 3 Bypass Diodes
Cable Type		4mm ²
Length of Cable		1250mm
Connector		Jiaming:PV-JM601

PACKING MANNER

Packing Type		40HQ
Piece/Pallet		30
Pallet/Container		22
Piece/Container		660

*The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement, AE ALTERNATIVE ENERGY GmbH Reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the 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.

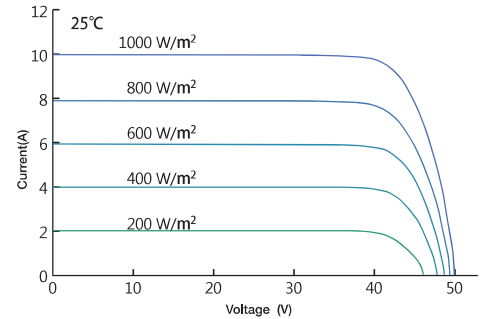
*Power measurement tolerance: ±3%

*Voc measurement tolerance: ±3%

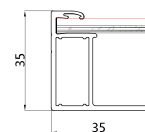
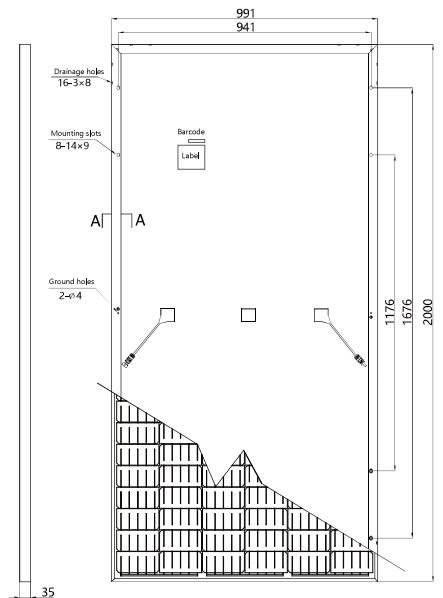
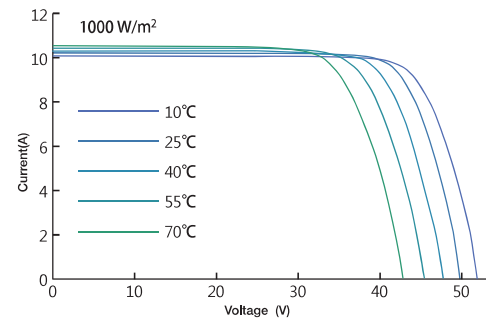
*Isc measurement tolerance: ±3%

*Modules Shipped to AU are made in China

Current-Voltage Curve under different irradiance



Current-Voltage Curve under different working temperatures



Section A-A

Dimension (unit: mm)

Version 2019.08 © AE SOLAR All Rights Reserved.

AE Solar GmbH

Messerschmittring 54
86343 Königsbrunn
Germany

Tel.: +49 8231 92 92 52 2
Fax: +49 8231 97 82 68 9
Email: sales@ae-solar.com
Web: www.ae-solar.com