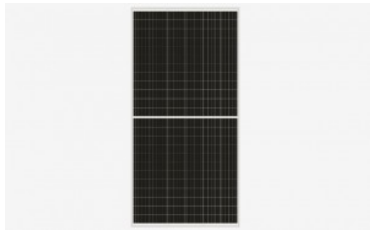


AS-6M144-HC MONO PERC

AmeriSolar is a solar modules manufacturer with production facilities in USA, China, Vietnam and Korea. Amerisolar solar panels have a 12 year warranty on the product and up to 30 years of guaranteed performance



Panel Solar AmeriSolar AS-6M-HC

ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- High module conversion efficiency up to 21.27% by using innovative Half-cell design and Passivated Emmitter Rear Contact (PERC) technology.
- Low temperature coefficient and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- High reliability against extreme environmental conditions (passing salt mist, ammonia and hail tests).
- Potential induced degradation (PID) resistance.

CERTIFICATIONS

- IEC 61215, IEC 61730, UL 1703, IEC 62716, IEC 61701, IEC TS 62804, CE, CQC, ETL(USA), JET(Japan), J-PEC(Japan), KS(South Korea), BIS(India), MCS(UK), CEC(Australia), CSI Eligible(CA-USA), Israel Electric(Israel), InMetro(Brazil), TSE(Turkey)
- ISO 9001:2015: Quality management system
- ISO 14001:2015: Environmental management system
- ISO 45001:2018: Occupational health and safety management system

SPECIAL WARRANTY

- 12 years product warranty
- 30 years linear power output warranty

SPECIFICATIONS

	AS-6M144-HC 445 W	AS-6M144-HC 450 W	AS-6M144-HC 455 W	AS-6M144-HC 460 W
Number of cells	144 (6 x 24)			
Cell type	Monocrystalline - 166 x 83 mm			
Maximum system voltage	1000 Vdc			

Electrical Specifications *

		STC *	NOCT **	STC *	NOCT **	STC *	NOCT **	STC *	NOCT **
Maximum power	Pmax	445 Wp	331 Wp	450 Wp	335 Wp	455 Wp	339 Wp	460 Wp	347 Wp
Power Tolerance		0~+3%	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%
Maximum power voltage	Vmpp	41,60 V	37,80 V	41,80 V	38,00 V	42,00 V	38,20 V	42,20 V	38,40 V
Open circuit voltage	Voc	50,00 V	46,00 V	50,20 V	46,20 V	50,40 V	46,40 V	50,60 V	46,60 V
Maximum power current	Impp	10,70 A	8,76 A	10,77 A	8,82 A	10,84 A	8,88 A	10,91 A	8,94 A
Short circuit current	Isc	11,22 A	9,09 A	11,28 A	9,14 A	11,34 A	9,19 A	11,40 A	9,24 A
Module efficiency		20,36 %		20,58 %		20,81 %		21,04 %	

Temperature Ratings

Open circuit voltage coefficient	Tk Voc	-0,28 % / °C
Short circuit current coefficient	Tk Isc	0,05 % / °C
Power coefficient	Tk W	-0,36 % / °C
Nominal Operating Temperature	NOCT	43 °C ±2 °C

Other specifications

Dimensions	2102 x 1040 x 35 mm
Weight	24 Kgr
Connection box	IP68 - 3 diodes Junction box
Cable	Cable 4 mm ² - 300 mm
Connector	MC4 or MC4 compatible

* STC (Standard Test Conditions: 1000 W/m², 25° C, AM 1,5)

** NOCT (Normal Operating Test Conditions: 800 W/m², 20° C, Windspeed 1 m/s)

DOWNLOADS

PANEL SOLAR AMERISOLAR AS-6M-HC

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