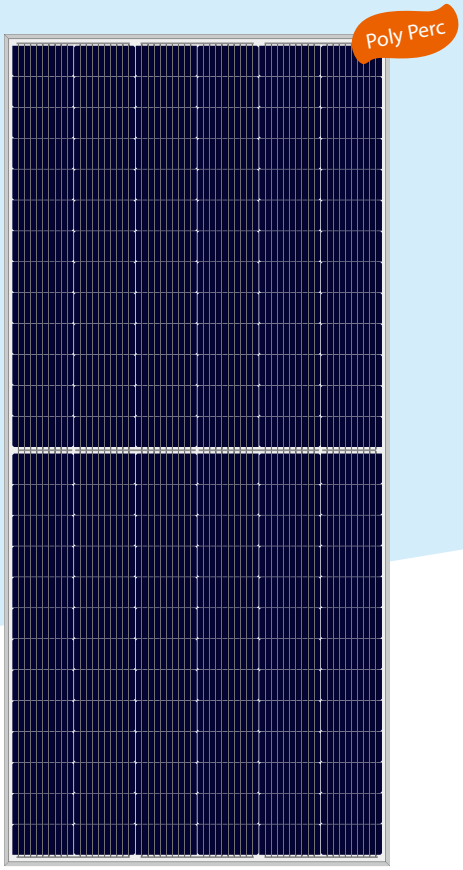
HCP78X9

400~415W

Half-Cell High Efficiency PV Module



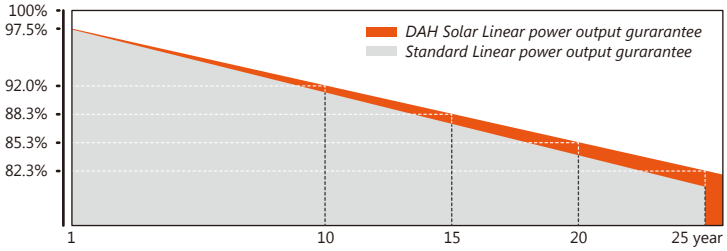
Comprehensive
Products and System Certificates

IEC 61215 / IEC 61730 / CE / JPEA / FIDE / INMETRO
ISO 9001: 2015 / Quality management system
ISO 14001: 2015 / Standards for environmental management system
OHSAS 18001: 2007 / International standards for occupational health & safety

Quality Guarantee

12-year Material & technology warranty

25-year Linear power output warranty



Max Module Efficiency — **19.07%**

Half-cell & High eff.

9BB Half-cell technology, Higher output power

Less Shading Effect

Unique circuit design, Minimize shading effect

Lower Temperature

Lower temperature coefficient, Lower hot spot temperature

Weather Resistance

Pass Anti PID test. 100% double EL test, Minimizes micro-cracks

T6 Frame

T6 frame, better mechanical load, safer and more stable

DAH Solar

Factory: No.358 Tianhe Road, Luyang Industrial Park, Hefei City, Anhui, China
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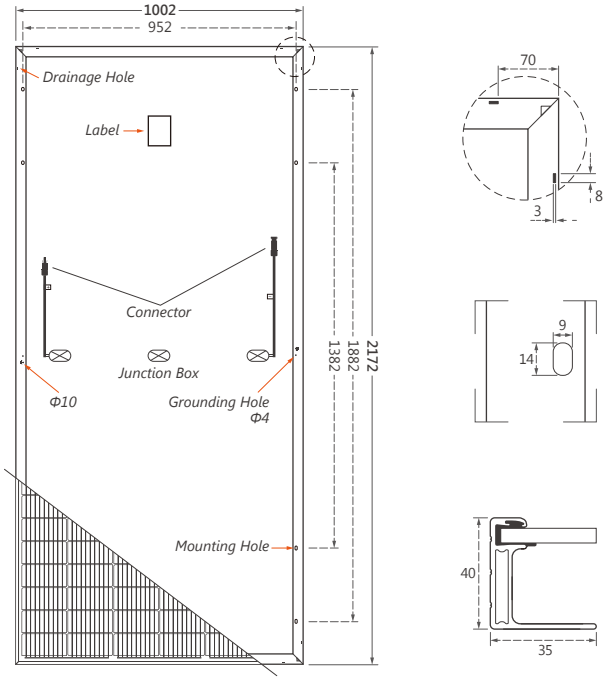
www.DAHSOLARPV.com

Poly Perc

HCP78X9 **400~415W**

Design



Mechanical Specification

Cells Type	Poly 158.75×79.375mm
Weight	24.3kg
Dimension (L×W×T)	2172×1002×40mm
Cable	4.0mm², Portrait: 300mm(+)/400mm(-)
(Including connector)	Landscape: 1300mm(+)/1300mm(-)
No.of Cells	156(6×26)
Packing	27pcs/pallet, 270pcs/20GP, 580pcs/40HQ
Glass	3.2 mm High Transmission, Antireflection Coating
Junction box	IP68, 3 Bypass Diodes
Connector	QC4 or MC4 Compatible

Operating Parameters

Maximum system voltage	1000V/1500V DC
Operating Temperature	-40 ~ +85°C
Maximum series fuse rating	20A
Snow load, frontside	5400Pa
Wind load, backside	2400Pa
Nominal operating cell temperature	45°C±2°C
Application level	Class A

Electrical Characteristics(STC)

Module Type	HCP78X9-400W	HCP78X9-405W	HCP78X9-410W	HCP78X9-415W
Maximum Power (Pmax)	400W	405W	410W	415W
Open-circuit Voltage (Voc)	51.4V	51.5V	51.6V	51.8V
Maximum Power Voltage (Vmp)	42.8V	43.0V	43.2V	43.4V
Short-circuit Current (Isc)	9.87A	9.93A	9.97A	10.04A
Maximum Power Current (Imp)	9.35A	9.42A	9.50A	9.57A
Module Efficiency (%)	18.38%	18.61%	18.84%	19.07%

Power Tolerance	0~+5W
Temperature Coeffcient of Isc	0.05%/°C
Temperature Coeffcient of Voc	-0.31%/°C
Temperature Coeffcient of Pmax	-0.38%/°C
Standard Test Environment	Irradiance 1000W/m², Cell temperature 25°C, Spectrum AM1.5

Electrical Characteristics(NOCT)

Module Type	HCP78X9-400W	HCP78X9-405W	HCP78X9-410W	HCP78X9-415W
Maximum Power (Pmax)	302W	306W	309W	313W
Open-circuit Voltage (Voc)	48.5V	48.7V	48.9V	49.1V
Maximum Power Voltage (Vmp)	39.7V	39.9V	40.1V	40.3V
Short-circuit Current (Isc)	8.06A	8.12A	8.18A	8.24A
Maximum Power Current (Imp)	7.61A	7.66A	7.72A	7.77A
Standard Test Environment	Irradiance 800W/m², Cell temperature 20°C, Spectrum AM1.5, Wind speed 1m/s			

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Fortaleza, 16 de setembro de 2020

Declaro, para os devidos fins, que a Sou Energy Distribuidora, amparada pela fabricante Hoymiles, endossa a garantia de 12 anos contra defeitos de fabricação para o modelo MI-1200 que porventura operar com módulos fotovoltaicos de até 405 W de potência, podendo esta garantia, inclusive, ser estendida para 25 anos, caso o usuário opte por adquirir a referida extensão de cobertura.

Mário Viana
Gerência Comercial Distribuição
OK EMPREENDIMENTOS ENERGY, IMPORTAÇÃO E EXPORTAÇÃO LTDA
CNPJ - 27.568.657/0001-06

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