For Global Market



Photon Solar Energy-Germany

Monocrystalline PV Module (Half Cut Cells)



MS(350-370)M-120HC Series

- More uniform current collection ability, reduces the current and heat loss of the battery in the module; beautiful appearance, more suitable for roof installation.
- Using half-piece PERC structure technology (low resistance), the output of mono crystalline 120pcs series is up to 370W (module conversion efficiency is up to 19.50%).

System	voltage	1000V/1500V	standa

- scale can pass the PID (potential induced attenuation)
- Excellent performance in low light environment achieved by using excellent surface velveting technology of glass
- The whole module is certified by 1600Pa wind load and 3600Pa snow load.
- Certified by high salt spray and high ammonia corrosion

350 355 360 36	370		test		
ELECTRICAL SPECIFICATIONS					
STC rated output (Pmpp)*	350 Wp	355 Wp	360 Wp	365 Wp	370 Wp
PV Module size			1776*1052*35MM		
Standard sorted output			0/+5 Wp		
Warranted power output STC (Pnominal)	350 Wp	355 Wp	360 Wp	365 Wp	370 Wp
Rated voltage (V _{mpp}) at STC	33.30 V	33.50 V	33.70 V	33.90 V	34.1 V
Rated current (Impp) at STC	10.52 A	10.60 A	10.69 A	10.77 A	10.86 A
Open circuit voltage (V₀c) at STC	40.50 V	40.70 V	40.90 V	41.10 V	41.3 V
Short circuit current (I₅c) at STC	11.02 A	11.10 A	11.20 A	11.28 A	11.37 A
Module efficiency	18.7%	19.0%	19.3 %	19.5 %	19.8 %
Rated output (Pmpp) at NOCT	259.3 Wp	263.0 Wp	266.7 Wp	270.4 Wp	274.1 Wp
Rated voltage (V _{mpp}) at NOCT	30.8 V	30.9 V	31.1 V	31.3 V	31.5 V
Rated current (Impp) at NOCT	8.44 A	8.50 A	8.57 A	8.64 A	8.71 A
Open circuit voltage (Voc) at NOCT	37.80 V	38.00 V	38.2 V	38.4 V	38.5 V
Short circuit current (I₅c) at NOCT	8.89 A	8.95 A	9.03 A	9.09 A	9.17 A
Temperature coefficient (Pmpp)	-	0.380%/K	Maximum system voltage (IEC)		1000Vpc/1500Vp
Temperature coefficient (Isc)	-	-0.042%/K	Number of diodes		3
Temperature coefficient (Impp)	-	0.008%/K	Maximum series fuse rating		20 A
Temperature coefficient (V _{mpp})		0.373%/K	Operating Temperature		-40°C to +85°C
Temperature coefficient (V₀c)	-	0.284%/K			
Normal operating cell temperature (NOCT)		46±2°C			

Measurement to	erance +/- 39	1/2
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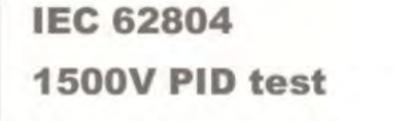












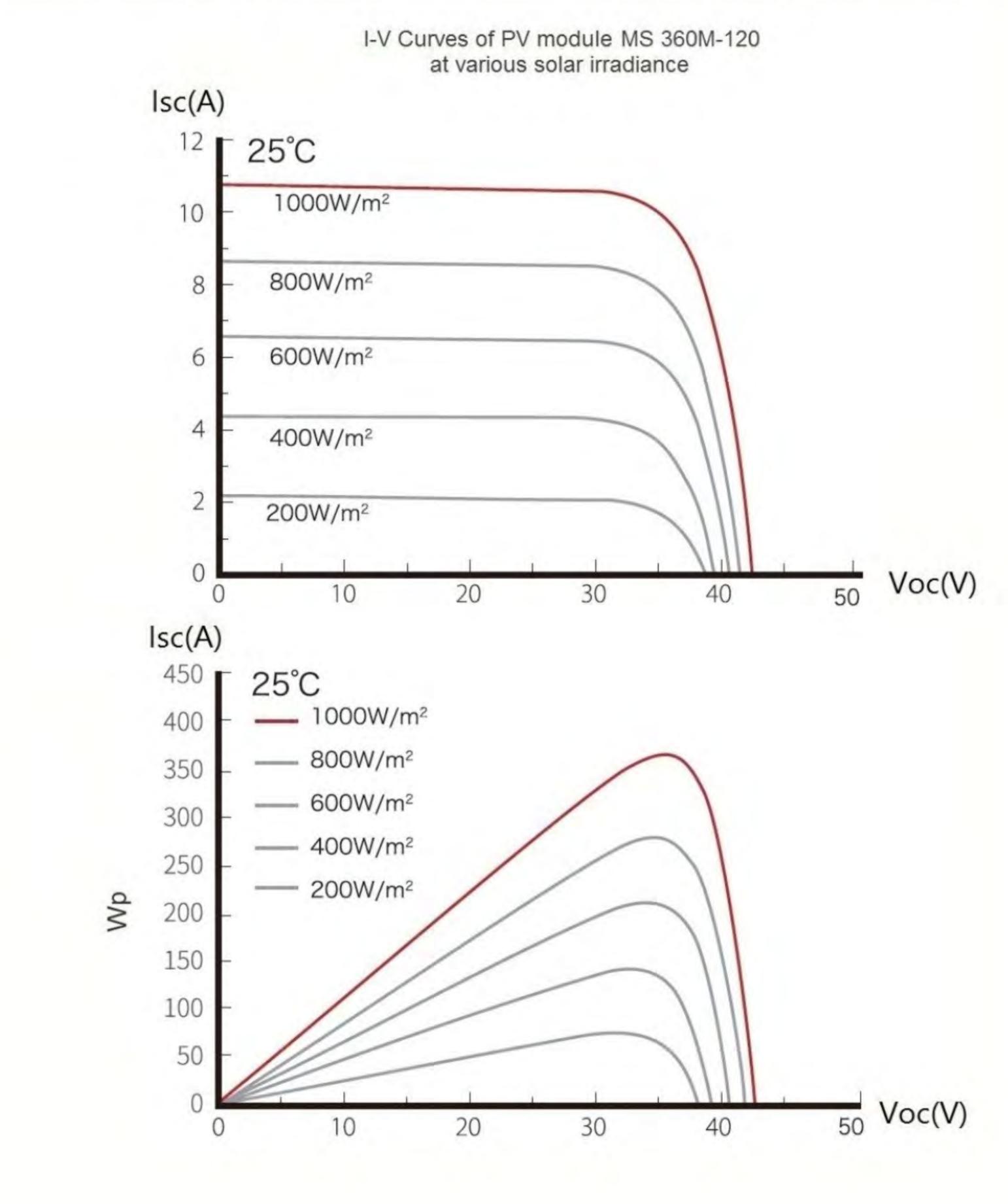


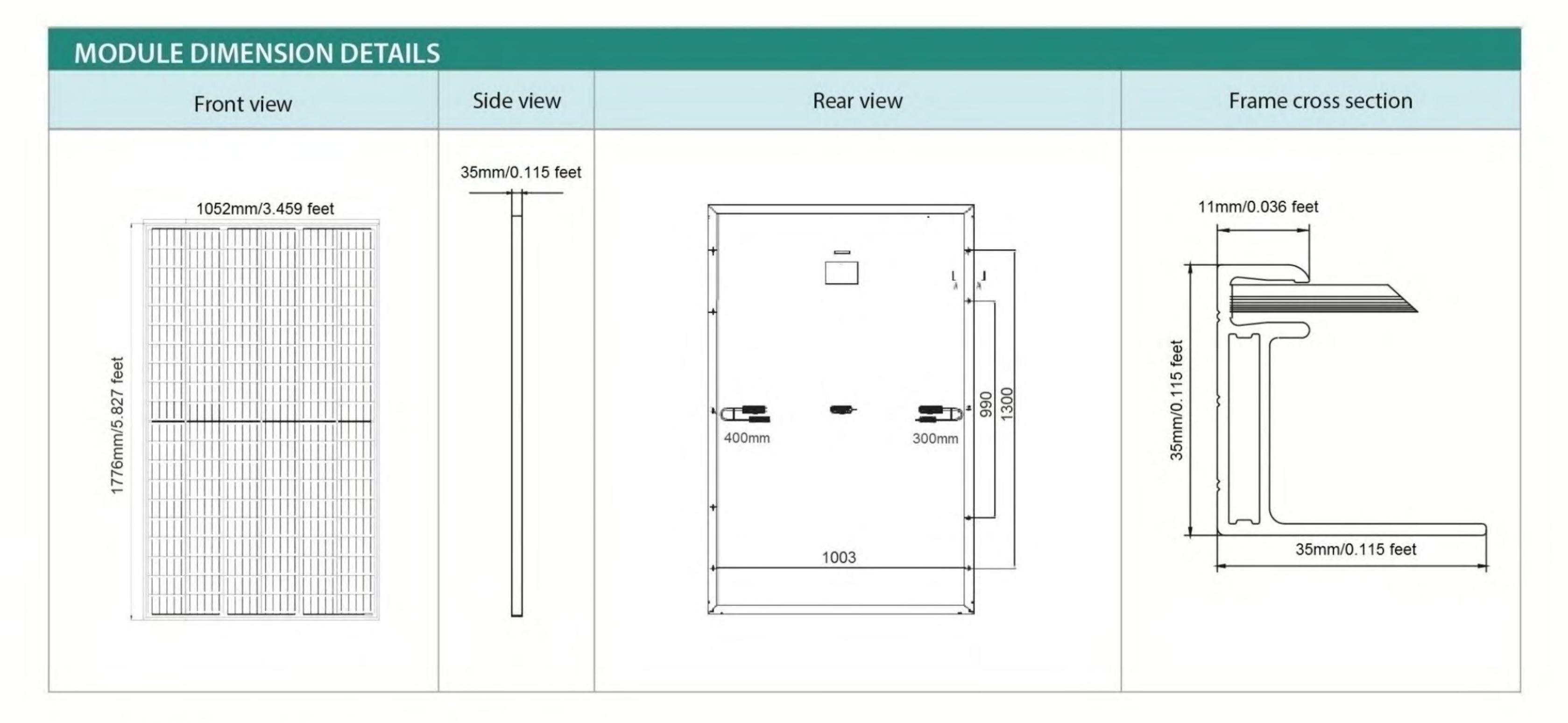
RELATED PARAMETERS		
Cell type	Monocrystalline	
Number of cells / cell arrangement	120/6*20	
Cells dimension	6"	
Packing unit	30 modules	
Weight of packing unit (for container)	615/kg / 1356 lbs	

MECHANICAL SPECIFICATI	ONS
Outer dimensions (L x W x H)	1776*1052*35mm 69.94*40.93*1.38 in
rame technology	Aluminum, silver anodized
Module composition	Glass/EVA /Backsheet(white)
Neight (module only)	20.5kg/42.82 lbs
ront glass thickness	3.2mm/0.13 in
lunction box IP rating	IP 65/67
Cable length(IEC)	300/400mm/11.81/15.75 in
Cable diameter (IEC)	12 AWG/ 4mm ²
² Maximum load capacity	3600 Pa
ire performance (IEC)	Class C
Connector type (IEC)	MC4 compatible

Refer to Photon Solar crystalline installation manual.

QUALIFICATION AND LINEAR WARRANTIES IEC61215, 61730 Product standard Extended product warranty 12 years Output decline 3%/year performance Pmpp (STC) 1st year 2^{nd~} 25th years Output decline 0.7%/year performance Pmpp (STC)





Photon Solar GmbH reserves the right of final interpretation. Specifications and designs included in this datasheet are subjekt to change without notice.

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Address: Niermannsweg 11-15, 40699 Erkrath, Germany Email: info@photon-solar.de, website: www.photon-solar.de LEGAL: MS series panels are distributed according to German electro law 2 (ElektroG2) under PV Global registration number: WEEE No. DE 47693041

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