

590~
610W

HY610-M120CSS



Hyper M60

Mono-facial
120-cell, 210mm, MBB
0~+3% positive tolerance

KEY FEATURES



MBB half cell design

Half-cut cells bring lower cell connection loss and lower thermal coefficients to ensure higher power output



More Power

Innovative 210mm big cell applied to ensure module power up to 610 Wp



High Reliability

Strict outsourcing BOM materials quality control and 100% in-house wafer and cell applied to module production



Excellent Low-light Performance

Advanced solar cell surface texturing technology allows for excellent performance in low-light environments



Highly Strengthened Design

Certified to withstand 5400Pa snow load and 2400Pa wind load



PID Resistant

Excellent PID resistance performance optimized by unique cell process design and BOM material control



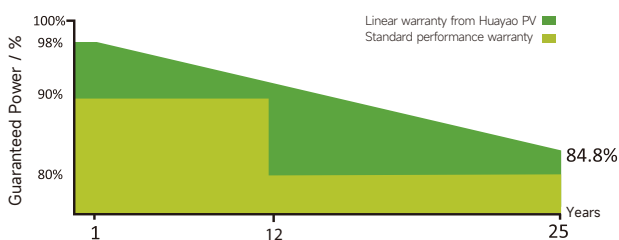
Fire resistance

Class of reaction to Class C

LINEAR PERFORMANCE WARRANTY

15 Year Product Warranty

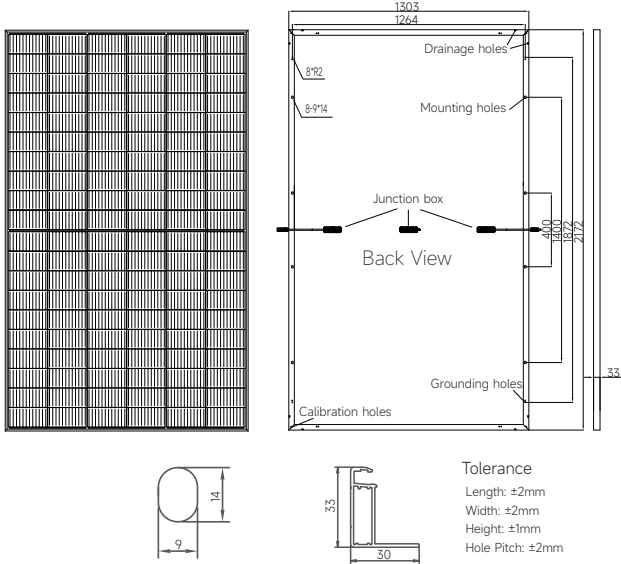
25 Year Linear Power Warranty



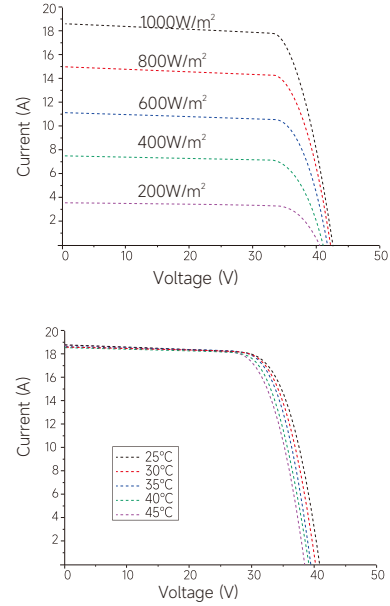
IEC 61215 (2016), IEC 61730 (2016)



Engineering Drawings



I-V Curves



Electrical Characteristics

	HY590-M120CSS	HY595-M120CSS	HY600-M120CSS	HY605-M120CSS	HY610-M120CSS
Pmax(W)	590	595	600	605	610
Vmp(V)	34.03	34.22	34.41	34.60	34.78
Imp(A)	17.34	17.39	17.44	17.49	17.54
Voc (V)	41.12	41.32	41.52	41.72	41.92
Isc(A)	18.41	18.46	18.51	18.56	18.61
Module efficiency(%)	20.85	21.02	21.20	21.38	21.55
Maximum system voltage(V)	1500				
Fuse Rating(A)	30				
Temperature coefficient Pmax(%°C)	-0.34				
Temperature coefficient Isc(%°C)	0.04				
Temperature coefficient Voc(%°C)	-0.25				

STC: Irradiance 1000W/m², module temperature 25°C, AM=1.5

Mechanical Characteristics

Number of cells	120 pcs
Size of cell (mm)	210*105
Type of cell	Mono
Thickness of glass (mm)	3.2
Type of frame	Anodized aluminum alloy
Junction box	IP68
Size of module (mm)	2172*1303*33
Weight (kg)	30.5
Cables/connectors	4mm ² , MC4 compatible
Length of Cable	Portrait: +300mm/ -300mm

Working Characteristics

	HY590-M120CSS	HY595-M120CSS	HY600-M120CSS	HY605-M120CSS	HY610-M120CSS
Pmax(W)	446	450	453	457	461
Vmp(V)	31.70	31.89	32.01	32.21	32.40
Imp(A)	14.07	14.11	14.15	14.19	14.23
Voc(V)	37.85	38.13	38.20	38.41	38.69
Isc(A)	14.83	14.87	14.91	14.95	14.99
Power tolerance(%)	0~+3				
NOCT(°C)	44±2				

NOCT: Conditions: Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s

Packing Configuration

Pieces per pallet	33
Size of packing (mm)	1330*1130*2305
Weight of packing (kg)	1025
Pieces per container	594
Size of container	40' HQ

Maximum Ratings

Operating Temperature(°C)	-40~85
Operating humidity(%)	5~85
Allowable Hail Load	25mm ice-ball with velocity of 23m/s

