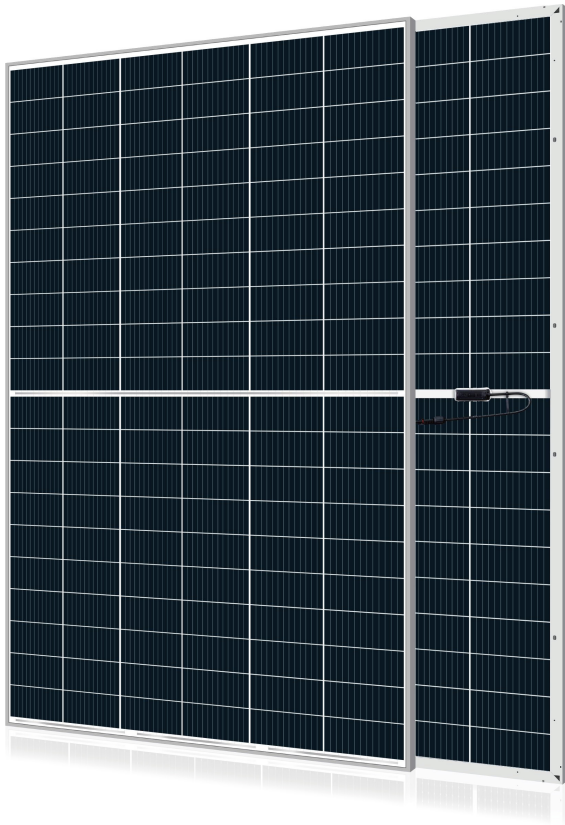


**590~610W** HY610-M120CDD



## Hyper M60

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

### KEY FEATURES



#### Mbb half cell design

Half-cut cells brings lower cell connection loss and lower thermal coefficients to ensures 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

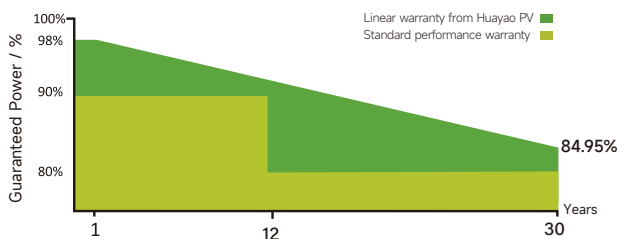


#### Fire resistance

Class of reaction to Class A

### LINEAR PERFORMANCE WARRANTY

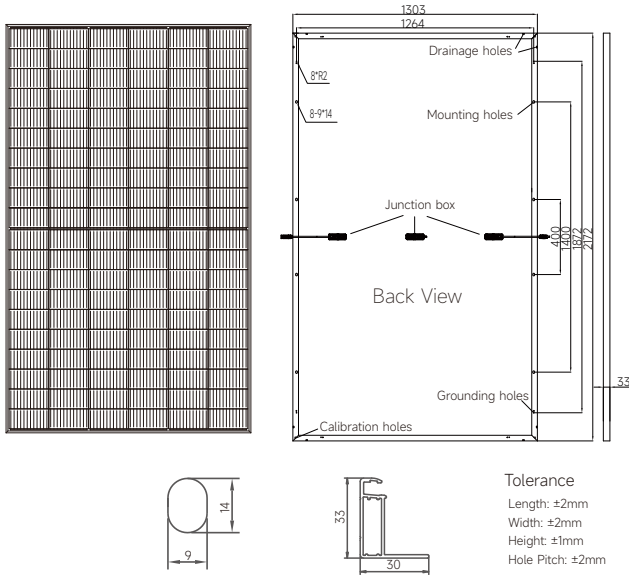
- 15** Year Product Warranty
- 30** Year Linear Power Warranty



IEC 61215 (2016), IEC 61730 (2016)



Engineering Drawings



Electrical Characteristics

	HY590-M120CDD	HY595-M120CDD	HY600-M120CDD	HY605-M120CDD	HY610-M120CDD
Pmax(W)	590	595	600	605	610
Vmp(V)	34.06	34.23	34.40	34.57	34.74
Imp(A)	17.32	17.38	17.44	17.50	17.56
Voc (V)	41.14	41.22	41.30	41.38	41.46
Isc(A)	18.37	18.42	18.47	18.52	18.57
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/m<sup>2</sup>, module temperature 25°C, AM=1.5

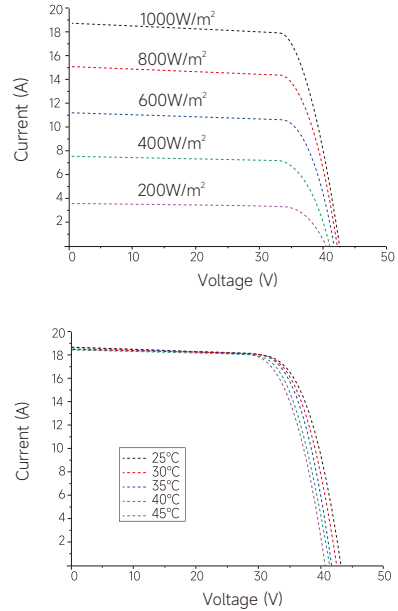
Bifacial Output-Backside Power Gain

	Pmax(W)	649	654.5	660	665.5	671
10%	Module efficiency(%)	22.93	23.12	23.32	23.51	23.71
20%	Pmax(W)	708	714	720	726	732
	Module efficiency(%)	25.01	25.23	25.44	25.65	25.86

Packing Configuration

Pieces per pallet	33
Size of packing (mm)	1330*1130*2305
Weight of packing (kg)	1193
Pieces per container	594
Size of container	40' HQ

I-V Curves



Working Characteristics

	HY590-M120CDD	HY595-M120CDD	HY600-M120CDD	HY605-M120CDD	HY610-M120CDD
Pmax(W)	447	451	455	459	463
Vmp(V)	31.64	31.80	31.96	32.12	32.29
Imp(A)	14.14	14.19	14.24	14.29	14.34
Voc(V)	38.52	38.60	38.67	38.75	38.82
Isc(A)	14.97	15.01	15.05	15.09	15.13
Power tolerance(%)	0~+3				
NOCT(°C)	44±2				

NOCT: Conditions: Irradiance 800W/m<sup>2</sup>, ambient temperature 20°C, wind speed 1m/s

Mechanical Characteristics

Number of cells	120 pcs
Size of cell (mm)	210*105
Type of cell	Mono
Thickness of glass (mm)	2.0
Type of frame	Anodized aluminum alloy
Junction box	IP68
Size of module (mm)	2172*1303*33
Weight (kg)	35.6
Cables/connectors	4mm <sup>2</sup> , MC4 compatible
Length of Cable	Portrait: +300mm/ -300mm

Maximum Ratings

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

