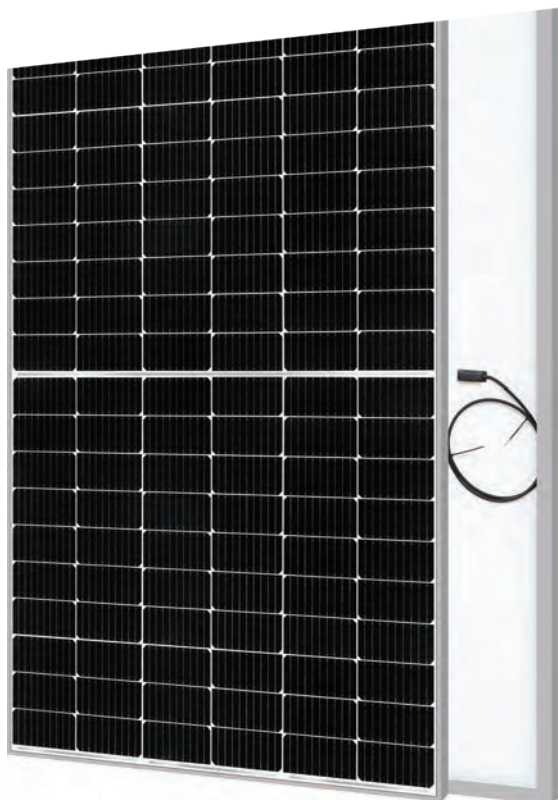
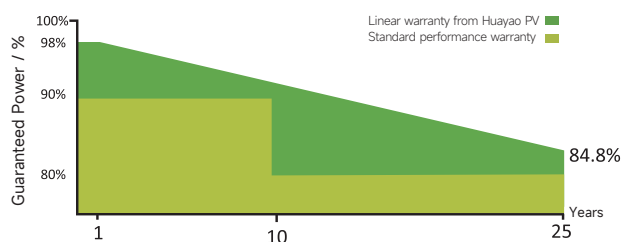


445~450W HY445~450-M120BSS



LINEAR PERFORMANCE WARRANTY

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



Hyper M60

Mono-facial
120-cell, MBB
±3% power 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 182mm big cell applied to ensure module power up to 450 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



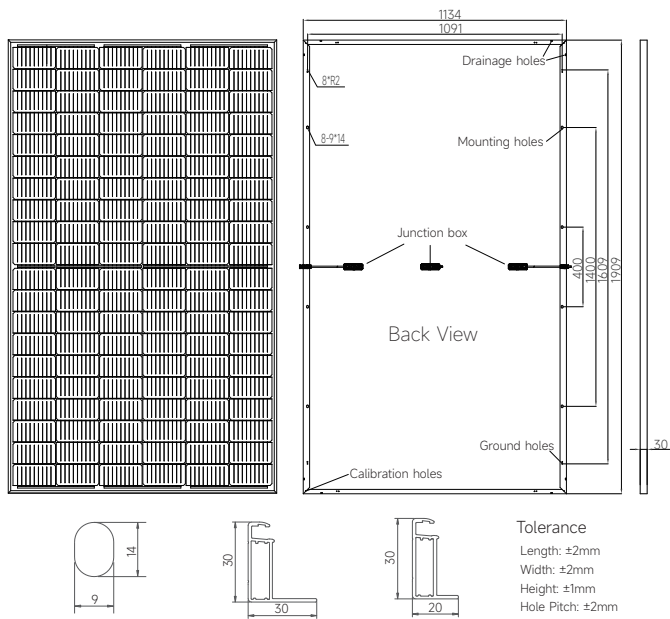
PID Resistant(Available on Request)

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

IEC 61215 (2016), IEC 61730 (2016)



Engineering Drawings



Electrical Characteristics

	HY445-M120BSS	HY450-M120BSS
P _{max} (W)	445	450
V _{mp} (V)	34.96	35.19
I _{mp} (A)	12.73	12.79
V _{oc} (V)	41.74	41.98
I _{sc} (A)	13.50	13.56
Module efficiency(%)	20.56	20.79
Maximum system voltage(V)	1500	
Fuse Rating(A)	25	
Temperature coefficient P _{max} (%/°C)	-0.350	
Temperature coefficient I _{sc} (%/°C)	0.05	
Temperature coefficient V _{oc} (%/°C)	-0.275	

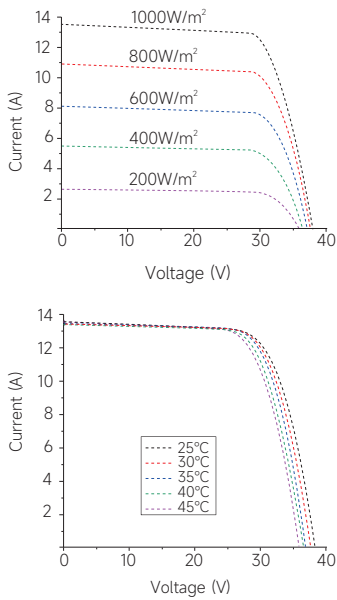
STC: Irradiance 1000W/m², module temperature 25°C, AM=1.5

Working Characteristics

	HY445-M120BSS	HY450-M120BSS
P _{max} (W)	337	341
V _{mp} (V)	32.62	32.83
I _{mp} (A)	10.33	10.38
V _{oc} (V)	38.99	39.22
I _{sc} (A)	10.98	11.03
Power tolerance(%)	±3	
NOCT(°C)	44	

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

I-V Curves



Mechanical Characteristics

Number of cells	120 pcs
Size of cell (mm)	182*91
Type of cell	Mono
Thickness of glass (mm)	3.2
Type of frame	Anodized aluminum alloy
Junction box	IP68
Size of module (mm)	1909*1134*30
Weight (kg)	22.3
Cables/connectors	4mm ² , Genuine MC4-EVO
Length of Cable	Portrait: +300mm/ -300mm

Packing Configuration

Pieces per pallet	36
Size of packing (mm)	1940*1135*1255
Weight of packing (kg)	848
Pieces per container	864
Size of container	40' HQ

Maximum Ratings

Fire Rating	Class C (IEC 61730)
Operating Temperature(°C)	-40-85
Operating humidity(°C)	5-85
Allowable Hail Load	25mm ice-ball with velocity of 23m/s

