



Eagle-60HC

Monocrystalline Half-Cut Solar Module

KEY FEATURES



MBB Half-Cut Solar Cell:
120 cells (6X20); 12 busbar solar cell.



Higher Module Conversion Efficiency:
Higher module output up to 610W with module efficiency up to 21.55%.



Low-light Performance:
Advanced glass and surface texturing allow for excellent performance in low-light environments.



Higher Power Output
The innovative design of low-voltage and higher string power output improves system efficiency, reducing BOS costs and LCOE.

210



+ WATTS POSITIVE TOLERANCE

12 YEARS PRODUCT WARRANTY

25 YEARS LINEAR POWER WARRANTY

210mm SERIES, 60-CELL HALF-CUT SERIES

ELECTRICAL PERFORMANCE (STC)

Module type: Eagle-60hc	590M	595M	600M	605M	610M
Maximum Power(Wp)	590W	595W	600W	605W	610W
Open circuit Voltage(Voc)	41.20V	41.35V	41.50V	41.65V	41.80V
Short circuit Current(Isc)	18.36A	18.43A	18.50A	18.57A	18.63A
Maximum Power Voltage(Vm)	34.10V	34.25V	34.40V	34.55V	34.70V
Maximum Power Current(Im)	17.31A	17.38A	17.45A	17.52A	17.58A
Module efficiency	20.84%	21.02%	21.20%	21.38%	21.55%
Maximum Series Fuse	30A				
Watts positive tolerance	0~+3%				
Number of Diode	3				
Standard Test Conditions	1000W/M ² , 25°C, AM1.5				
Maximum System Voltage	1500V/DC				
Temperature-Coefficient Isc	+0.04%/°C				
Temperature-Coefficient Voc	-0.25%/°C				
Temperature-Coefficient Pmpp	-0.34%/°C				
Normal Operating Cell Temperature	-40°C...+85°C				
Load Capacity for the cover of the module (glass)	5400Pa(IEC61215)(snow)				
Load Capacity for the front & back of the module	2400Pa(IEC61215)(wind)				

ELECTRICAL PERFORMANCE (NOCT)

Module type: Eagle-66hc	590M	595M	600M	605M	610M
Maximum Power(Wp)	446W	450W	454W	458W	462W
Open circuit Voltage(Voc)	38.60V	38.80V	39.00V	39.20V	39.40V
Short circuit Current(Isc)	14.60A	14.65A	14.70A	14.75A	14.80A
Maximum Power Voltage(Vm)	32.20V	32.35V	32.50V	32.65V	32.80V
Maximum Power Current(Im)	13.82A	13.91A	13.97A	14.03A	14.09A

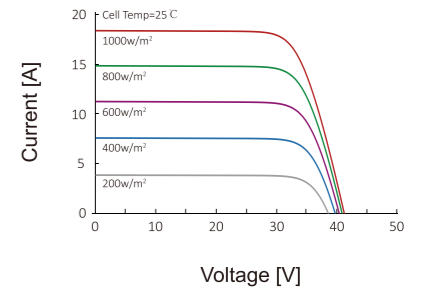
MECHANICAL CHARACTERISTICS

Front cover (material / thickness)	low-iron tempered glass / 3.2mm
Backsheet (color)	white
Cell (quantity / material / dimensions)	120(6X10X2) / monocrystalline silicon
Frame (material / color)	aluminum hollow-chamber frame on each side anodized aluminum alloy / silver
Junction box (protection degree)	≥IP68
Cables & Plug connectors	4mm ² , 300mm in length, length can be customized
Module Dimensions (L / W / H)	2172x1303x35mm
Module Weight	30.9kg
Application class	Class A
Electrical protection class	Class II
Fire safety class	Class C

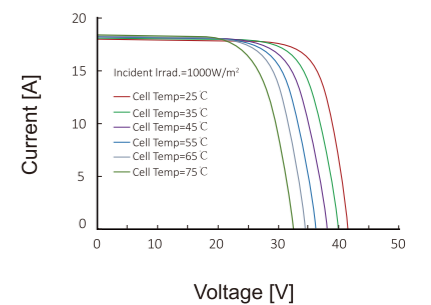
PACKING

Container Size	Units/Pallet (PCS)	Weight/Pallet (KG)	Pallet Measurement (mm)	Units/Container (PCS)
40HQ	31	973	1330x1120x2305	527

CURRENT-VOLTAGE CURVES:



Module characteristics at constant module temperatures of 25°C and variable levels of irradiance



Module characteristics at variable module temperatures and constant module irradiance of 1.000 W/m²

MODULE DIAGRAM:

