



## N-Type Mono-crystalline Bifacial Solar Module

### KEY FEATURES



**MBB Half-Cut Solar Cell:**  
144 cells (6x12x2).



**Higher Module Conversion Efficiency:**  
Higher module output up to 580W with module efficiency up to 22.45%.



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



**Light-weight design**  
Light-weight design using transparent backsheets for easy installation and low BOS cost.



**Higher Power Output**  
Module power increases 5-25% generally, bringing significantly lower LCOE and higher IRR.

**TOPCon**

## BIFACIAL, 182mm, 72-CELL HALF-CUT SERIES

### ELECTRICAL PERFORMANCE

Module type: ERA Pro-72HC	580M
Maximum Power (Wp)	580W
Open circuit Voltage (Voc)	50.90V
Short circuit Current (Isc)	14.25A
Maximum Power Voltage (Vm)	42.52V
Maximum Power Current (Im)	13.64A
Module efficiency	22.45%
Maximum Series Fuse	25A
Watts positive tolerance	0→+3%
Number of Diode	3
Standard Test Conditions	1000W/m <sup>2</sup> , 25°C, AM1.5
Maximum System Voltage	1500V/DC
Temperature-Coefficient Isc	+0.043%/°C
Temperature-Coefficient Voc	-0.24%/°C
Temperature-Coefficient Pmp	-0.30%/°C
Operating Temperature	-40°C...+85°C
Normal Operating Cell Temperature	45±2°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)

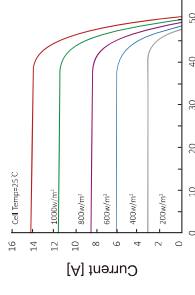
### ELECTRICAL PERFORMANCE (NOCT)

Module type: ERA Pro-72HC	580M
Maximum Power (Wp)	437W
Open circuit Voltage (Voc)	48.28V
Short circuit Current (Isc)	11.55A
Maximum Power Voltage (Vm)	39.95V
Maximum Power Current (Im)	10.94A

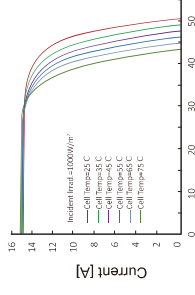
### MECHANICAL CHARACTERISTICS

Front cover (material / thickness)	low-iron tempered glass / 3.2mm
Backsheet (color)	transparent
Cell (quantity / material / dimensions)	144 (6x12x2) / monocrystalline silicon bifacial
Frame (material / color)	aluminum hollow-chamber frame on each side anodized aluminum alloy / silver
Junction box (protection degree)	≥IP68
Cables & Plug connectors	4mm <sup>2</sup> , 300mm in length, length can be customized
Module Dimensions (L / W / H)	2278x1134x30/35mm
Module Weight	26.6kg / 27.7kg
Application class	Class A
Electrical protection class	Class II
Fire safety class	Class C

### CURRENT-VOLTAGE CURVES:

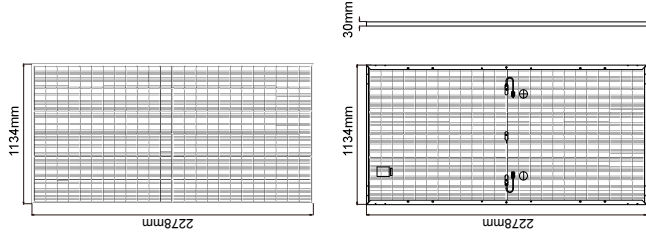


Module characteristics at constant module temperatures of 25°C and variable levels of irradiance



Module characteristics at variable module temperatures and constant module irradiance of 1,000 W/m<sup>2</sup>

### MODULE DIAGRAM:



**+** WATTS POSITIVE TOLERANCE

**15** YEARS PRODUCT WARRANTY

**30** YEARS LINEAR POWER WARRANTY

