

M10 MONO MODULE **N** TYPE

580W-600W

Premium Quality *Bifacial Transparent Backsheet*

144 CELL

M10 MONO N-TYPE

23.23%

MAXIMUM EFFICIENCY

0 to +5W

POSITIVE POWER TOLERANCE



Higher Output of Power



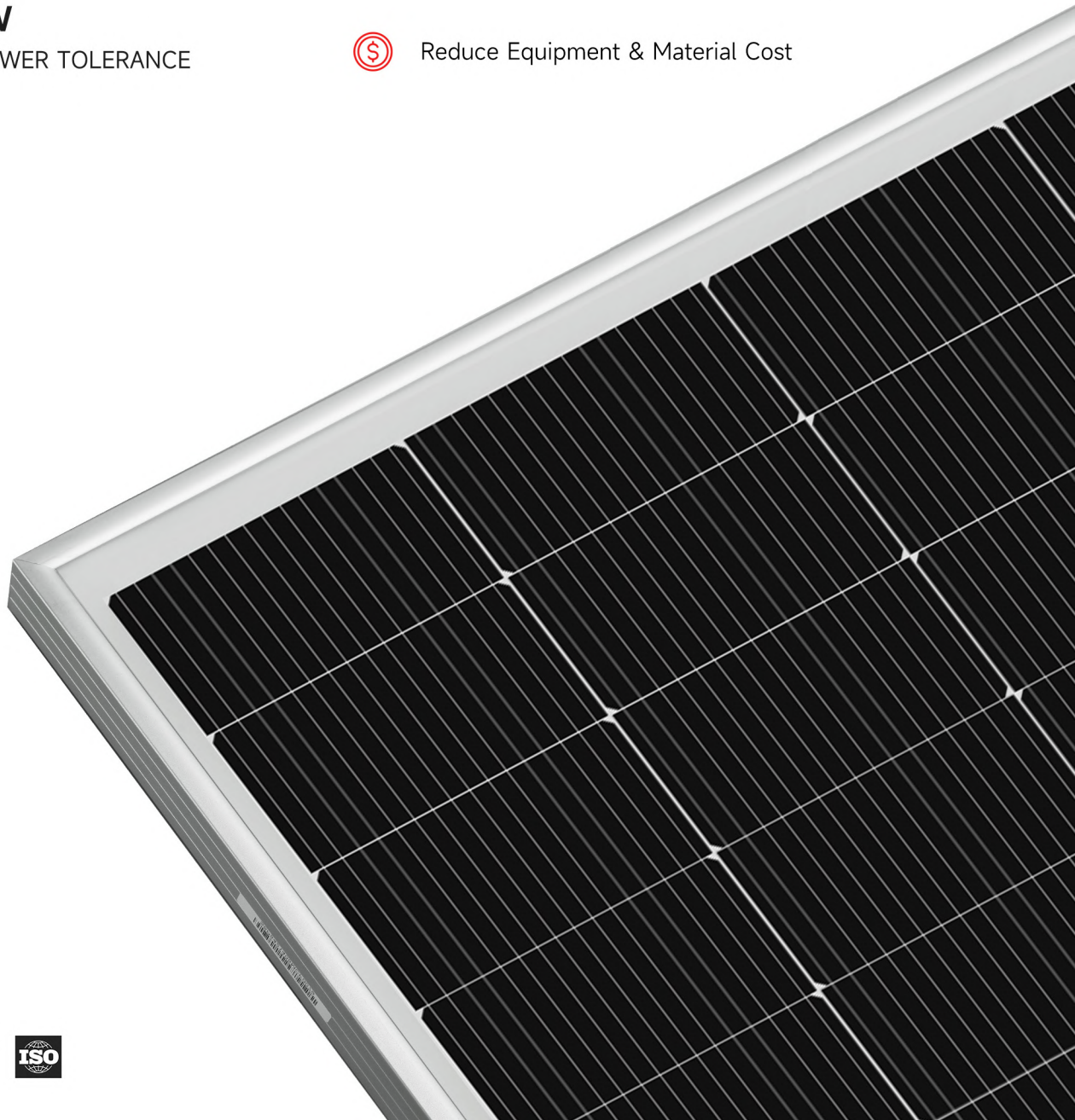
For Environment For Future



Optimize the Temperature Coefficient



Reduce Equipment & Material Cost



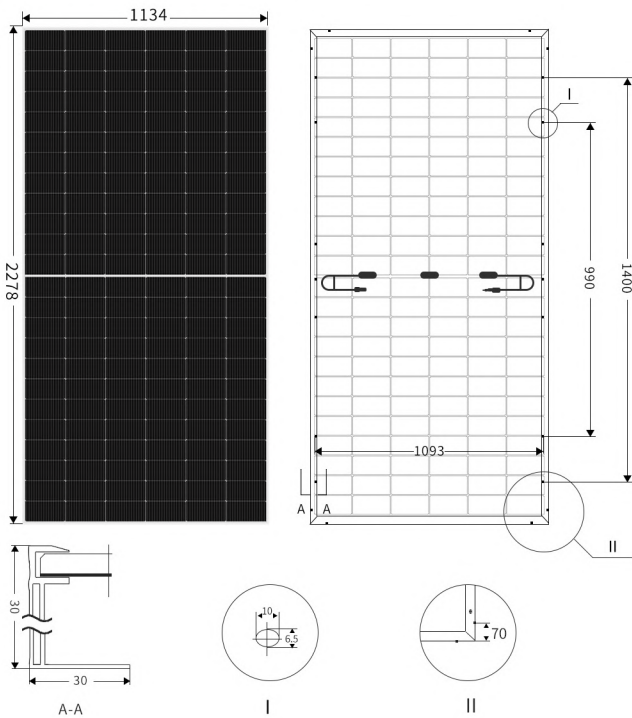
| Module Type | | PW-72M580HM10 | | PW-72M585HM10 | | PW-72M590HM10 | | PW-72M595HM10 | | PW-72M600HM10 | |
|-----------------------|--------------|---------------|-------|---------------|-------|---------------|-------|---------------|-------|---------------|-------|
| | | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Test Environment | | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power | $P_{MAX}(W)$ | 580 | 438.9 | 585 | 442.6 | 590 | 446.3 | 595 | 450 | 600 | 453.7 |
| Maximum Power Voltage | $V_{MPP}(V)$ | 45.04 | 43.34 | 45.25 | 43.53 | 45.46 | 43.72 | 45.67 | 43.91 | 45.88 | 44.1 |
| Maximum Power Current | $I_{MPP}(A)$ | 12.88 | 10.12 | 12.93 | 10.16 | 12.98 | 10.2 | 13.03 | 10.24 | 13.08 | 10.28 |
| Open Circuit Voltage | $V_{OC}(V)$ | 52.8 | 50.22 | 53 | 50.41 | 53.2 | 50.6 | 53.4 | 50.79 | 53.6 | 50.98 |
| Short Circuit Current | $I_{SC}(A)$ | 13.5 | 10.63 | 13.54 | 10.67 | 13.58 | 10.71 | 13.62 | 10.75 | 13.66 | 10.79 |
| Tolerance | (W) | 0 - +5 | | 0 - +5 | | 0 - +5 | | 0 - +5 | | 0 - +5 | |
| Module Efficiency | (%) | 22.45 | | 22.65 | | 22.84 | | 23.03 | | 23.23 | |

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3. Average efficiency reduction of 4.5% at 200W/m² according to EN 60904-1
 NOCT: Irradiance at 800 W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

BIFACIAL OUTPUT-REAR SIDE POWER GAIN 10% FOR REFERENCE

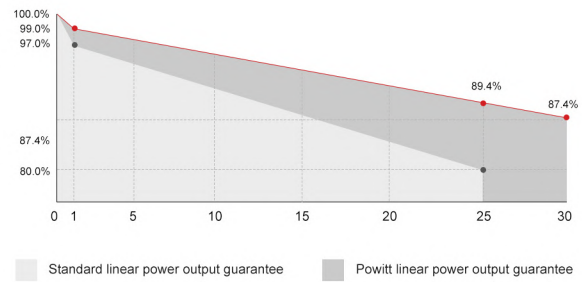
| Module Type | PW-72M580HM10 | PW-72M585HM10 | PW-72M590HM10 | PW-72M595HM10 | PW-72M600HM10 |
|-------------|---------------|---------------|---------------|---------------|---------------|
| Pmax (W) | 638 | 643.5 | 649 | 654.5 | 660 |
| Voc (V) | 52.8 | 53 | 53.2 | 53.4 | 53.6 |
| Isc (A) | 14.9 | 15.02 | 15.08 | 15.14 | 15.20 |
| Vmp (V) | 45.04 | 45.25 | 45.46 | 45.67 | 45.88 |
| Imp (A) | 14.17 | 14.22 | 14.28 | 14.33 | 14.39 |

DIMENSIONS OF PV MODULE

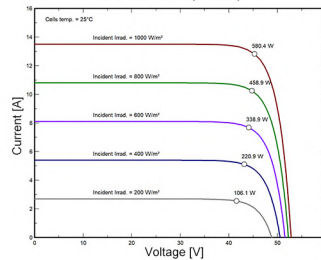


LINEAR PERFORMANCE WARRANTY

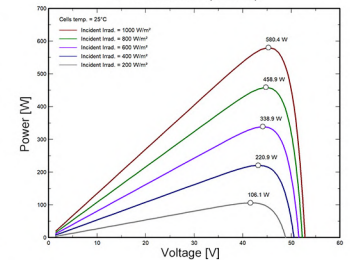
15 Year Product Warranty 30 Year Linear Power Warranty



I-V CURVE (580W)



P-V CURVE (580W)



MECHANICAL DATA

| | |
|-------------------|---|
| Cell Type | Mono N-TYPE |
| No. of Cells | 144 (6 x 24) |
| Module Dimensions | 2278 x 1134 x 30mm |
| Weight | 31kg |
| Front Glass | 2.0mm |
| Back Glass | 2.0mm |
| Frame | Anodized Aluminium Alloy |
| Junction Box | IP 68 Rated |
| Cables | 4.0mm ² , 350mm or Customized Length |
| Connector | MC4 Compatible |

TEMPERATURE RATINGS

| | |
|---|------------|
| Nominal Operating Cell Temperature(NOCT) | 45±2°C |
| Temperature Coefficient of P _{MAX} | -0.30%/°C |
| Temperature Coefficient of V _{OC} | -0.25%/°C |
| Temperature Coefficient of I _{SC} | +0.046%/°C |

MAXIMUM RATINGS

| | |
|-------------------------|----------------|
| Operational Temperature | -40°C to +85°C |
| Maximum System Voltage | 1500V DC |
| Max Series Fuse Rating | 30A |
| Mechanical Load | 5400pa |
| Wind Load | 2400pa |

PACKAGING CONFIGURATION 37 pcs/Pallet, 740 pcs/40'HQ

