

M10 MONO MODULE **N** TYPE

**580W-600W**

Premium Quality *Bifacial Dual Glass*

**144 CELL**

M10 MONO N-TYPE

**23.23%**

MAXIMUM EFFICIENCY

**0 to +5W**

POSITIVE POWER TOLERANCE



Higher Output of Power



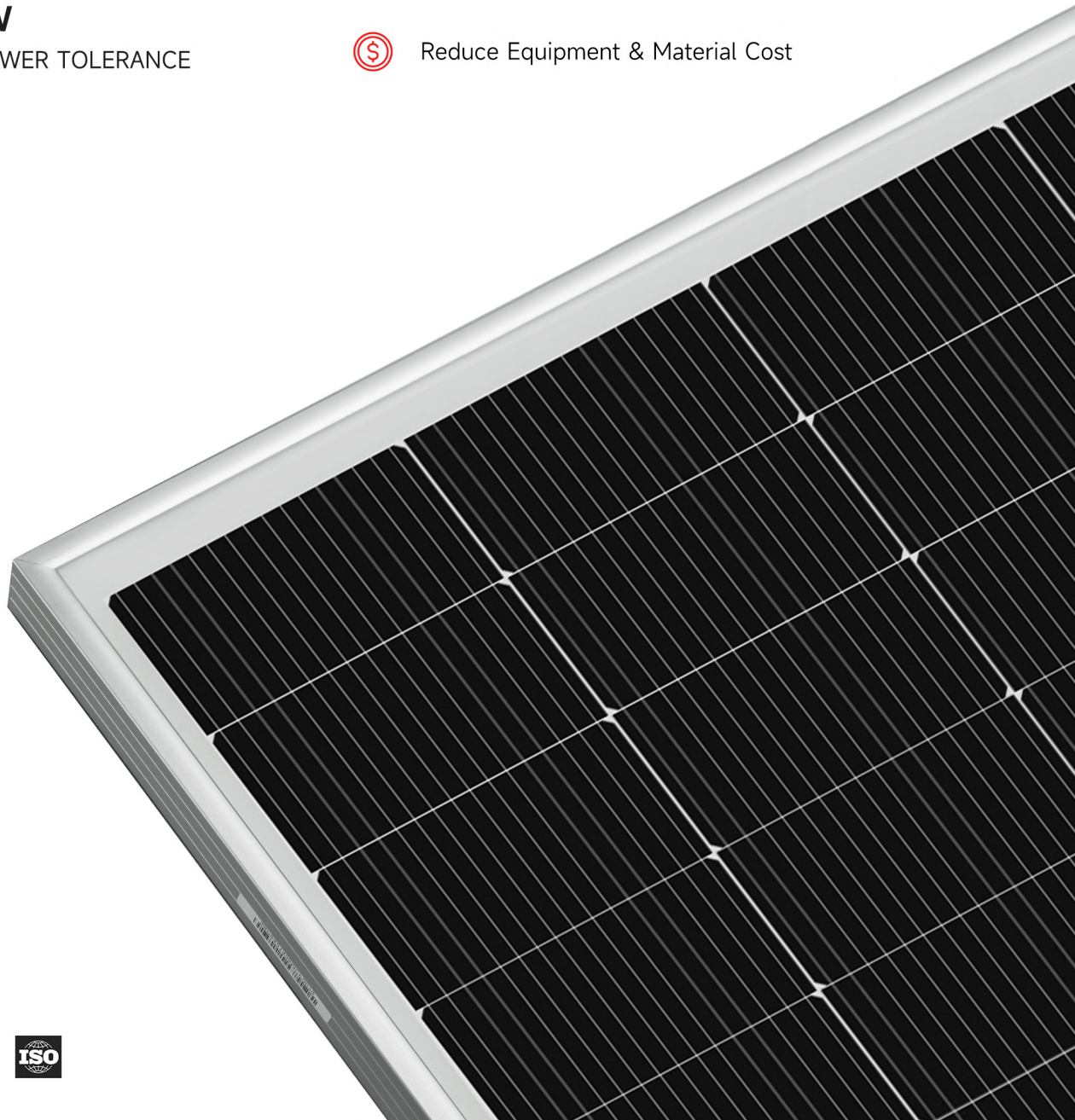
For Environment For Future



Optimize the Temperature Coefficient



Reduce Equipment & Material Cost



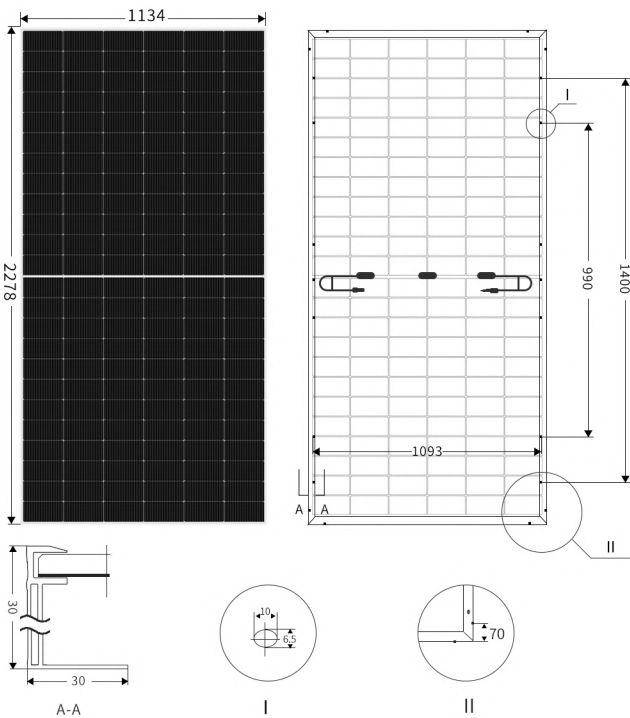
Module Type		PW-72M580HM10-BD		PW-72M585HM10-BD		PW-72M590HM10-BD		PW-72M595HM10-BD		PW-72M600HM10-BD	
Test Environment		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power	$P_{MAX}(W)$	580	438.9	585	442.6	590	446.3	595	450	600	453.7
Maximum Power Voltage	$V_{MPP}(V)$	45.04	43.34	45.25	43.53	45.46	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/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3. Average efficiency reduction of 4.5% at 200W/m<sup>2</sup> according to EN 60904-1  
 NOCT: Irradiance at 800 W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s.

### BIFACIAL OUTPUT-REAR SIDE POWER GAIN 10% FOR REFERENCE

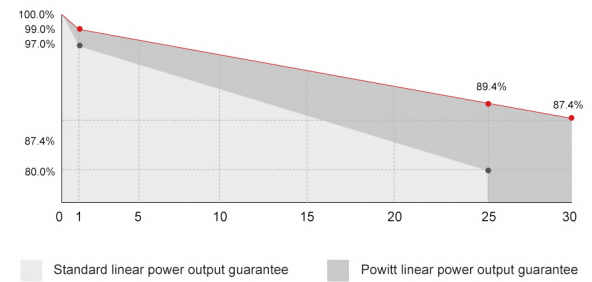
Module Type	PW-72M580HM10-BD	PW-72M585HM10-BD	PW-72M590HM10-BD	PW-72M595HM10-BD	PW-72M600HM10-BD
Pmax (W)	638	643.5	649	654.5	660
Voc (V)	52.8	53	53.2	53.4	53.6
Isc (A)	14.9	15.02	15.08	15.14	15.20
Vmp (V)	45.04	45.25	45.46	45.67	45.88
Imp (A)	14.17	14.22	14.28	14.33	14.39

### DIMENSIONS OF PV MODULE

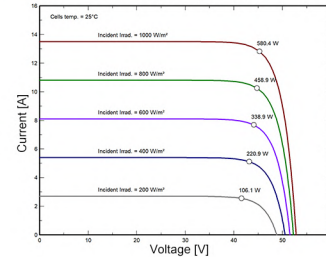


### LINEAR PERFORMANCE WARRANTY

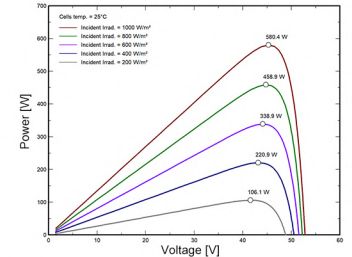
15 Year Product Warranty 30 Year Linear Power Warranty



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 <sup>2</sup> , 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



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