

M10 MONO MODULE **N** TYPE

420W-440W

Premium Quality *Bifacial Dual Glass Full Black*

108 CELL

M10 MONO N-TYPE

22.53%

MAXIMUM EFFICIENCY

0 to +5W

POSITIVE POWER TOLERANCE



Higher Output of Power



For Environment For Future



Optimize the Temperature Coefficient



Reduce Equipment & Material Cost



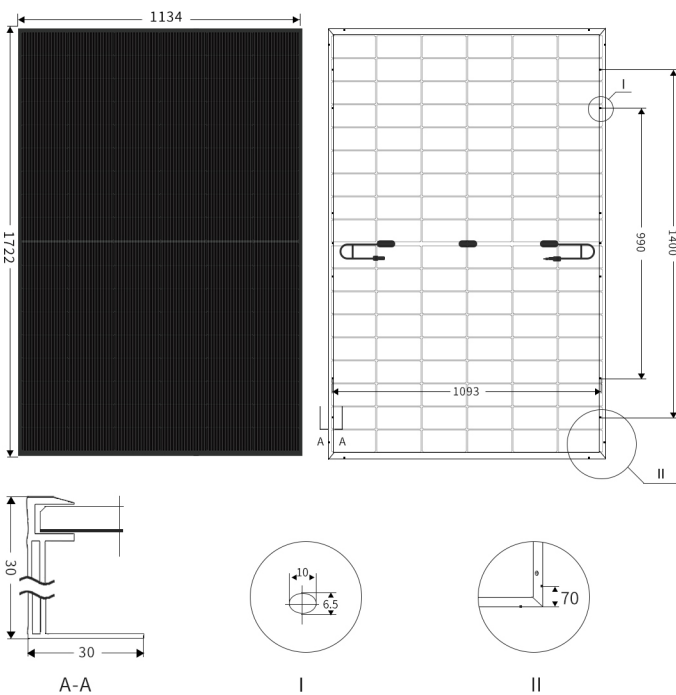
Module Type		PW-54M420HM10-BD		PW-54M425HM10-BD		PW-54M430HM10-BD		PW-54M435HM10-BD		PW-54M440HM10-BD	
		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Test Environment		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power	P_{MAX} (W)	420	316	425	319	430	322	435	325	440	328
Maximum Power Voltage	V_{MPP} (V)	32.02	30.05	32.35	30.28	32.68	30.51	33.01	30.83	33.34	31.15
Maximum Power Current	I_{MPP} (A)	13.12	10.52	13.14	10.54	13.16	10.56	13.18	10.54	13.2	10.52
Open Circuit Voltage	V_{OC} (V)	38.48	36.4	38.54	36.46	38.6	36.52	38.66	36.82	38.72	37.12
Short Circuit Current	I_{SC} (A)	13.78	11.11	13.79	11.14	13.8	11.16	13.81	11.2	13.82	11.24
Tolerance	(W)	0 - +5		0 - +5		0 - +5		0 - +5		0 - +5	
Module Efficiency	(%)	21.51		21.76		22.02		22.28		22.53	

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

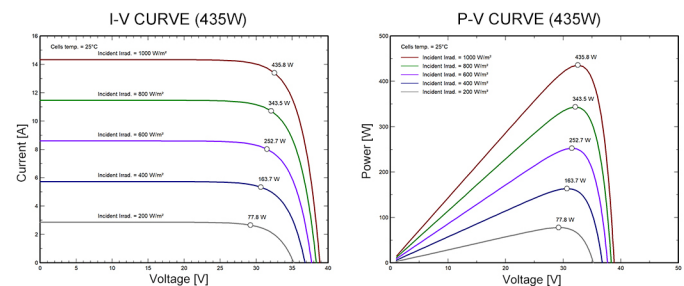
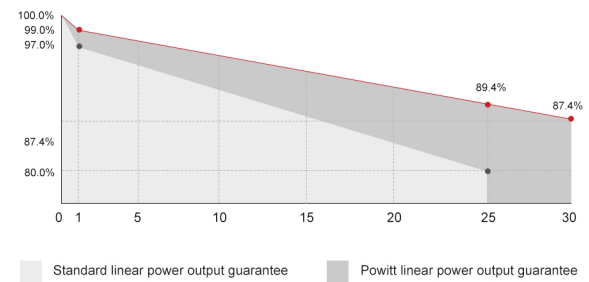
Module Type	PW-54M420HM10-BD	PW-54M425HM10-BD	PW-54M430HM10-BD	PW-54M435HM10-BD	PW-54M440HM10-BD
P_{max} (W)	462	467.5	473	478.5	484
V_{oc} (V)	38.48	38.54	38.6	38.66	38.72
I_{sc} (A)	15.24	15.27	15.29	15.31	15.33
V_{mp} (V)	32.02	32.35	32.68	33.01	33.34
I_{mp} (A)	14.43	14.46	14.47	14.5	14.52

DIMENSIONS OF PV MODULE



LINEAR PERFORMANCE WARRANTY

15 Year Product Warranty 30 Year Linear Power Warranty



MECHANICAL DATA

Cell Type	Mono N-TYPE
No. of Cells	108 (6 x 18)
Module Dimensions	1722 x 1134 x 30mm
Weight	23.7kg
Front Glass	2.0mm
Back Glass	2.0mm
Frame	Black 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 36 pcs/Pallet, 936 pcs/40'HQ



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