

MONOFACIAL

DE-144M10RHC430W-460W

Small in size, bigger on power

- Up to 460W,23.0% module efficiency with high density interconnect technology
- Reduce installation cost with higher power bin and efficiency
- Boost performance in warm weather with low temperature coefficient and operating temperature

High customer value

- Lower LCOE, reduced BOS cost, better ROI
- · Lowest guaranteed first year and annual degradation
- Optimized compatibility with existing mainstream system components

High output power

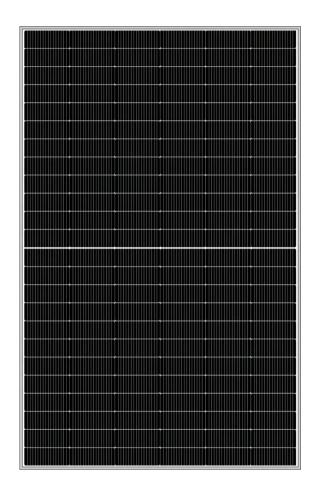
- Based on M10R-182mm solar cells with N-type TopCon technology
- High density interconnection provides improved power density
- MBB technology improves light-trapping effect and current-collection, while lowering series resistance

High reliability

- Minimized micro-cracks with innovative non-destructive cutting technology minimizes micro-cracking
- Ensured PID resistance through improved cell process and module material control
- Resistant to harsh environments
- Mechanical performance up to +5400/-2400 Pa

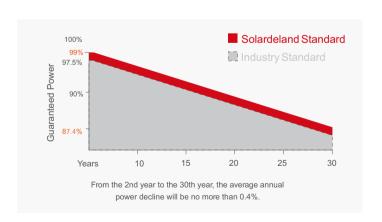
Longer warranty

- First-year degradation 1% and annual degradation at 0.4%
- Up to 12 years product warranty and 30 years power warranty



PRODUCT Warranty

12 YEARS Product Warranty **30YEARS** Performance guarantee









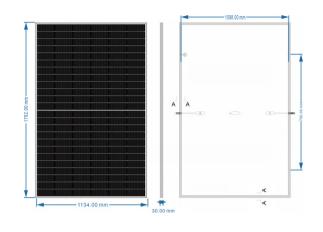




M10R-MONOFACIAL 430W-460W

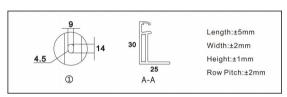
MECHANICAL PARAMETERS

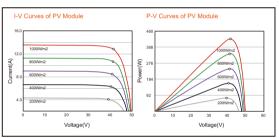
Cell Type	N-Type TopCon Half-cut Cell
No. of Cells	144
Front Cover	3.2 mm glass, high transmission, AR coated, tempered
Encapsulation	EVA
Back Cover	White backsheet
Junction Box	IP68 rated, 3 bypass diodes
Frame	30mm Anodized Aluminium Alloy
Cable	1 x 4 mm ² , 350 mm length or customized
Connectors	MC 4/ MC 4 compatible
Weight	20Kg
Dimension	1762*1134*30mm
Packaging	962pcs/40HQ Container



OPERATING PARAMETERS

01 =10 11110 17 110 1111=110	
Operational Temperature	-40~+85°C
Power Output Tolerance	0~5W
Voc and Isc Tolerance	±3%
Maximum System Voltage	1500VDC(IEC)
Maximum Series Fuse Rating	25A
Nominal Operational Cell Temperature	43 ± 2°C
Protection Class	Class II
Fire Rating	UL type 1 or 2 IEC Class C





ELECTRICAL CHARACTERISTICS STC AM1.5 1000W/m² 25°C NOCT:AM1.5 800W/m² 20°C 1m/s Test uncertainty for Pmax:±3%

DE-144M10RHC430W	DE-144M10RHC435W	DE-144M10RHC440W	/ DE-144M10RHC445W L)E-144M10RHC450W D	E-144M10RHC455W D	E-144M10RHC460W
STC NOCT	STC NOCT	STC NOCT	STC NOCT	STC NOCT	STC NOCT	STC NOCT
430W 327W	435W 330W	440W 334W	445W 337W	450W 340W	455W 344W	460W 347W
) 42.20 39.40	42.40 39.60	42.60 39.80	42.80 40.00	43.00 40.20	43.20 40.40	43.40 40.60
10.19 8.30	10.26 8.33	10.33 8.39	10.40 8.43	10.47 8.46	10.54 8.52	10.60 8.55
50.20 47.40	50.40 47.60	50.60 47.80	50.80 48.00	51.00 48.20	51.20 48.40	51.40 48.60
10.76 8.76	10.83 8.80	10.91 8.86	10.98 8.90	11.06 8.93	11.12 8.99	11.19 9.03
21.50%	21.80%	22.00%	22.30%	22.50%	22.80%	23.00%
	STC NOCT 430W 327W 42.20 39.40 10.19 8.30 50.20 47.40 10.76 8.76	STC NOCT STC NOCT 430W 327W 435W 330W 42.20 39.40 42.40 39.60 10.19 8.30 10.26 8.33 50.20 47.40 50.40 47.60 10.76 8.76 10.83 8.80	STC NOCT STC NOCT STC NOCT 430W 327W 435W 330W 440W 334W 42.20 39.40 42.40 39.60 42.60 39.80 10.19 8.30 10.26 8.33 10.33 8.39 50.20 47.40 50.40 47.60 50.60 47.80 10.76 8.76 10.83 8.80 10.91 8.86	STC NOCT STC NOCT STC NOCT STC NOCT 430W 327W 435W 330W 440W 334W 445W 337W 42.20 39.40 42.40 39.60 42.60 39.80 42.80 40.00 10.19 8.30 10.26 8.33 10.33 8.39 10.40 8.43 50.20 47.40 50.40 47.60 50.60 47.80 50.80 48.00 10.76 8.76 10.83 8.80 10.91 8.86 10.98 8.90	STC NOCT STC NOCT STC NOCT STC NOCT STC NOCT STC NOCT 430W 327W 435W 330W 440W 334W 445W 337W 450W 340W 42.20 39.40 42.40 39.60 42.60 39.80 42.80 40.00 43.00 40.20 10.19 8.30 10.26 8.33 10.33 8.39 10.40 8.43 10.47 8.46 50.20 47.40 50.40 47.60 50.60 47.80 50.80 48.00 51.00 48.20 10.76 8.76 10.83 8.80 10.91 8.86 10.98 8.90 11.06 8.93	430W 327W 435W 330W 440W 334W 445W 337W 450W 340W 455W 344W 10.19 8.30 10.26 8.33 10.33 8.39 10.40 8.43 10.47 8.46 10.54 8.52 50.20 47.40 50.40 47.60 50.60 47.80 50.80 48.00 51.00 48.20 51.20 48.40 10.76 8.76 10.83 8.80 10.91 8.86 10.98 8.90 11.06 8.93 11.12 8.99

MECHANICAL LOADING

Snow Load	5400 Pa or 550 kg/m²
Wind Load	2400 Pa or 244 kg/m²
Hail Resistance	Max. Ø 25 mm at 23 m/s

TEMPERATURE RATINGS(STC)

Temperature Coefficient of Isc	0.04%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Pmax	−0.30%/°C

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