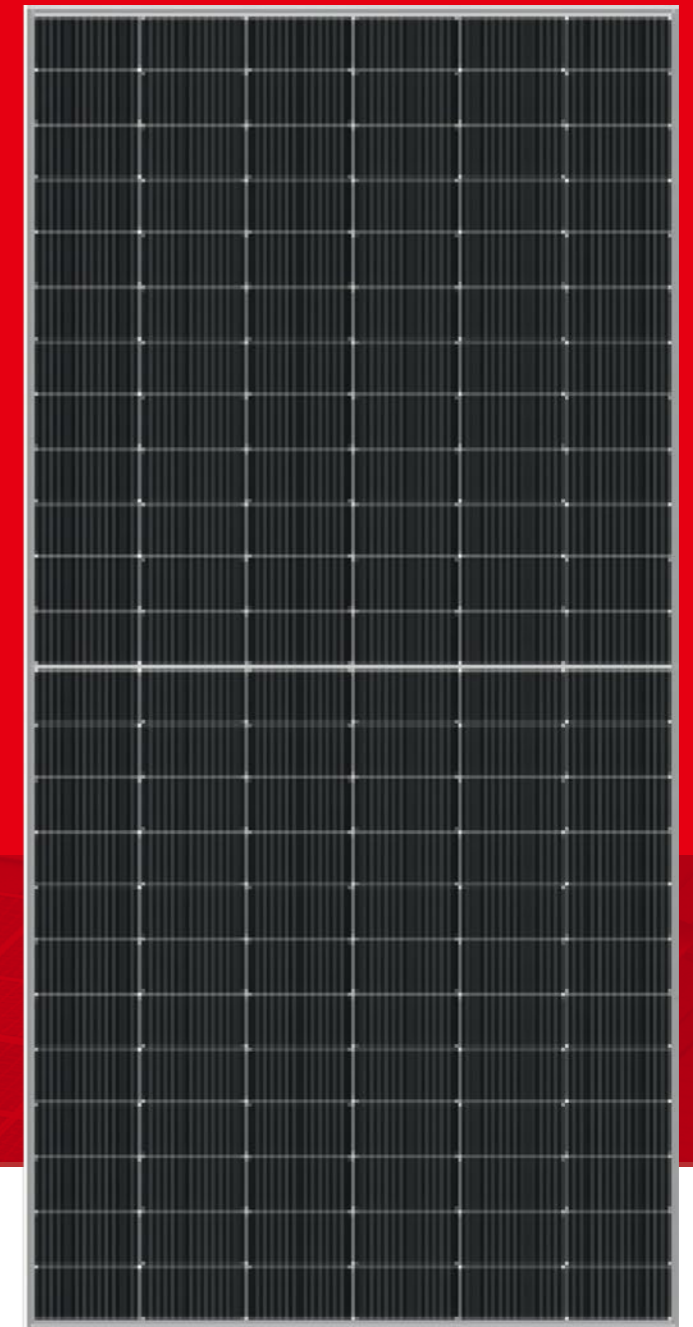
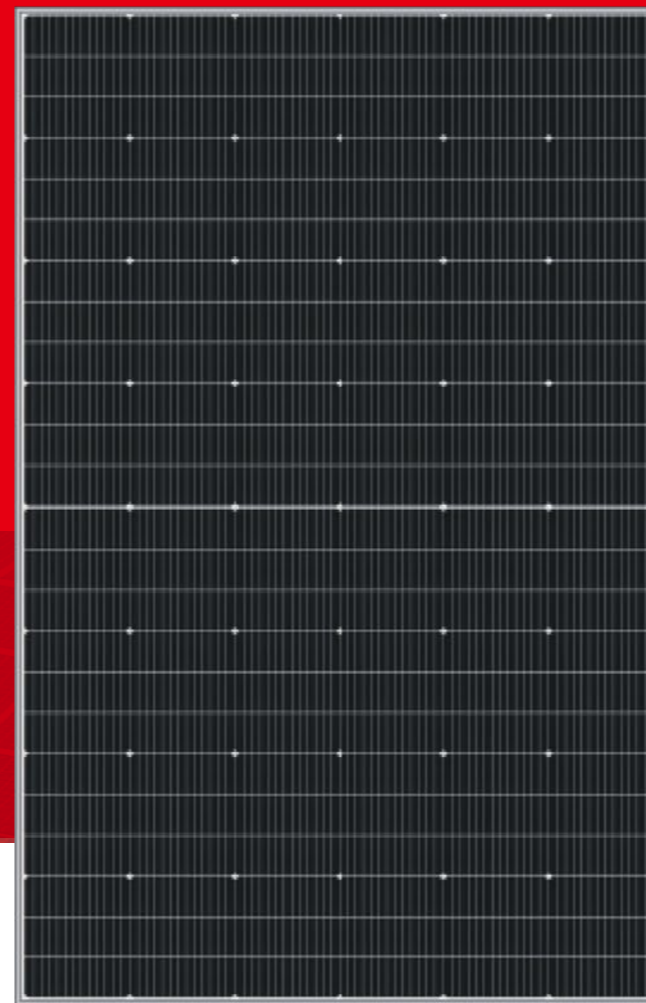


Product Parameters 

Demesilo

N-TopCon Technology PV Modules

Your Energy, Our Innovation.



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More Product Parameters

Demesilo (Changxing) New Energy Technology Co.,Ltd.

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VERSION:20240606

Household Photovoltaic
Solar Solutions Supplier

PV Module **SERIES**

N-TopCon Technology
Enhance efficiency, reduce micro-cracks

PV Module **SERIES** 450W



DS-144M10RHC 450W PV Panels

💰 HIGH VALUE

HIGH VALUE Low LCOE, reduced BOS cost, quick payback. More harvest with N-type TOPCon. Compatible, efficient container use cuts freight.

➡ HIGH POWER UP TO 450W

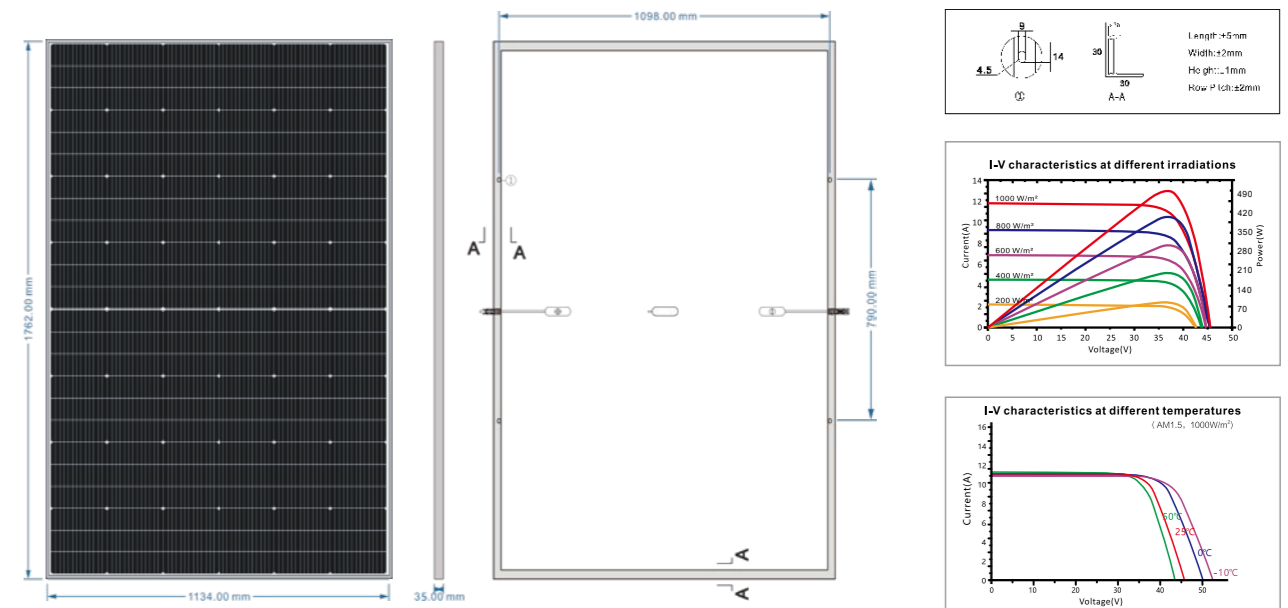
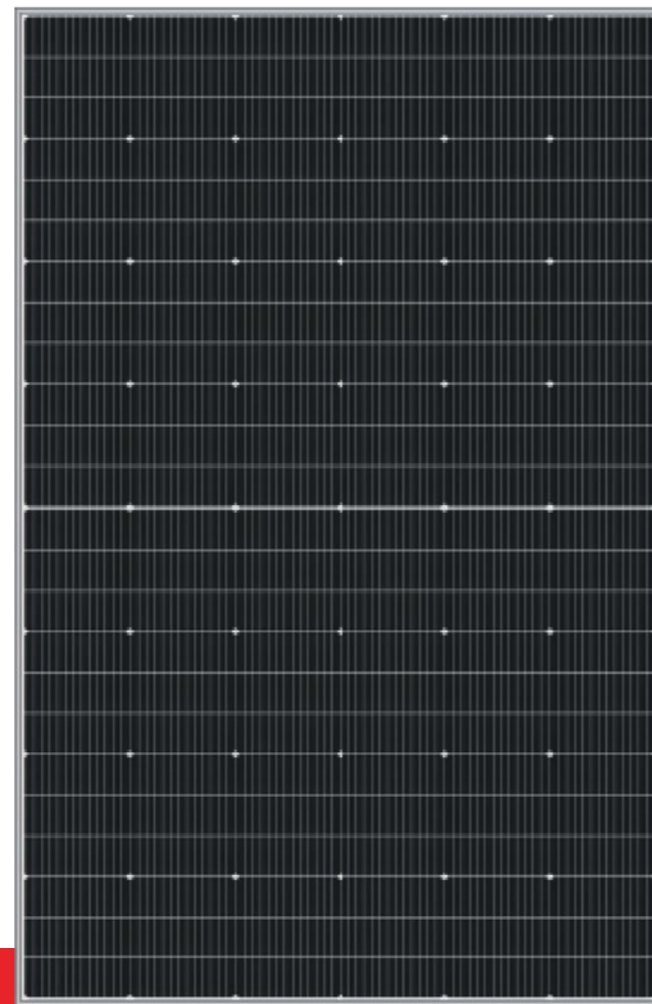
22.5% module efficiency, dense interconnect. SMBB for trapping, lower resistance, better collection.

🛡️ RELIABLE

Fewer micro-cracks, PID resistant, endure harsh conditions Mechanical performance up to 5400Pa positive, 2400Pa negative.

📈 HIGH ENERGY YIELD

Excellent LAM, low irradiation validated by 3rd party certs, Lower degradation: 1% first year, 0.4% annually. Low temperature coefficient (-0.30%) Up to 30% extra power gain from backside depending on albedo



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

Module Type	DS-144M10RHC430W		DS-144M10RHC435W		DS-144M10RHC440W		DS-144M10RHC445W		DS-144M10RHC450W		DS-144M10RHC455W		DS-144M10RHC460W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	430W	327W	435W	330W	440W	334W	445W	337W	450W	340W	455W	344W	460W	347W
Voltage at Maximum Power (Vmp/V)	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
Current at Maximum Power (Imp/A)	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
Open Circuit Voltage (Voc/V)	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
Short Circuit Current (Isc/A)	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
Module Efficiency (%)	21.50%		21.80%		22.00%		22.30%		22.50%		22.80%		23.00%	

Mechanical Parameters

Cell Orientation	6*24(144)solar half cells
Junction Box	IP 68 3 diodes
Output Cable	4.0mm² solar cable(IEC) (+) ≥350mm(-) ≥350mm or customized
Front Glass	3.2 mm, Anti-reflection Coating, High Transmission, Low Iron, Fully Strengthened Glass
Frame	35mm Anodized Aluminium Alloy
Weight	21kg (+/-0.5kg)
Dimension	1762*1134*35mm
Packaging	31pcs/pallet, 806pcs/40HQ Container

Operating Parameters

Operational Temperature	-40~+85°C
Power Output Tolerance	0~5W
Voc and Isc Tolerance	± 3%
Maximum System Voltage	1000/1500VDC(IEC)
Maximum Series Fuse Rating	25A
Nominal Operational Cell Temperature	45±2°C
Protection Class	Class II
Fire Rating	UL type 1 or 2 IEC Class C

Mechanical Loading

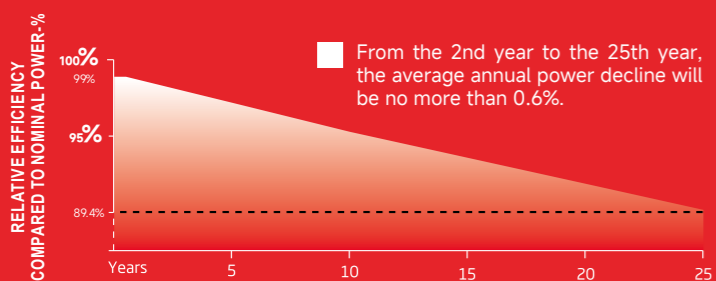
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

Temperature Ratings(STC)

Temperature Coefficient of Isc	0.046%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Pmax	-0.30%/°C

Product Warranty

Warranty for Materials and Processing	12 Years
Warranty for Extra Linear Power Output	25 Years



Product Warranty

12-year Warranty for Materials and Processing
25-year Warranty for Extra Linear Power Output



PV Module **SERIES**

DS-72M10HC

550W PV Panels

⑤ HIGH VALUE

HIGH VALUE Low LCOE, reduced BOS cost, quick payback. More harvest with N-type TOPCon. Compatible, efficient container use cuts freight.

④ HIGH POWER UP TO 550W

21.3% module efficiency, dense interconnect. SMBB for trapping, lower resistance, better collection.

③ RELIABLE

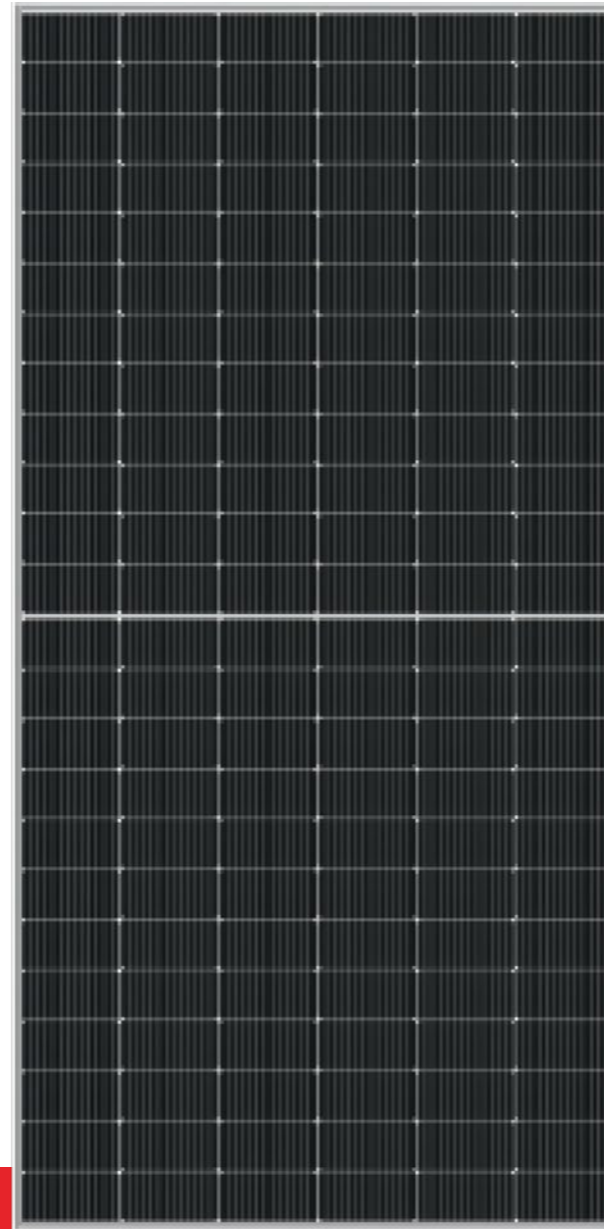
Fewer micro-cracks, PID resistant, endure harsh conditions. Mechanical performance up to 5400Pa positive, 2400Pa negative.

② HIGH ENERGY YIELD

Excellent LAM, low irradiation validated by 3rd party certs. Lower degradation: 1% first year, 0.4% annually. Low temperature coefficient (-0.30%) up to 30% extra power gain from backside depending on albedo.

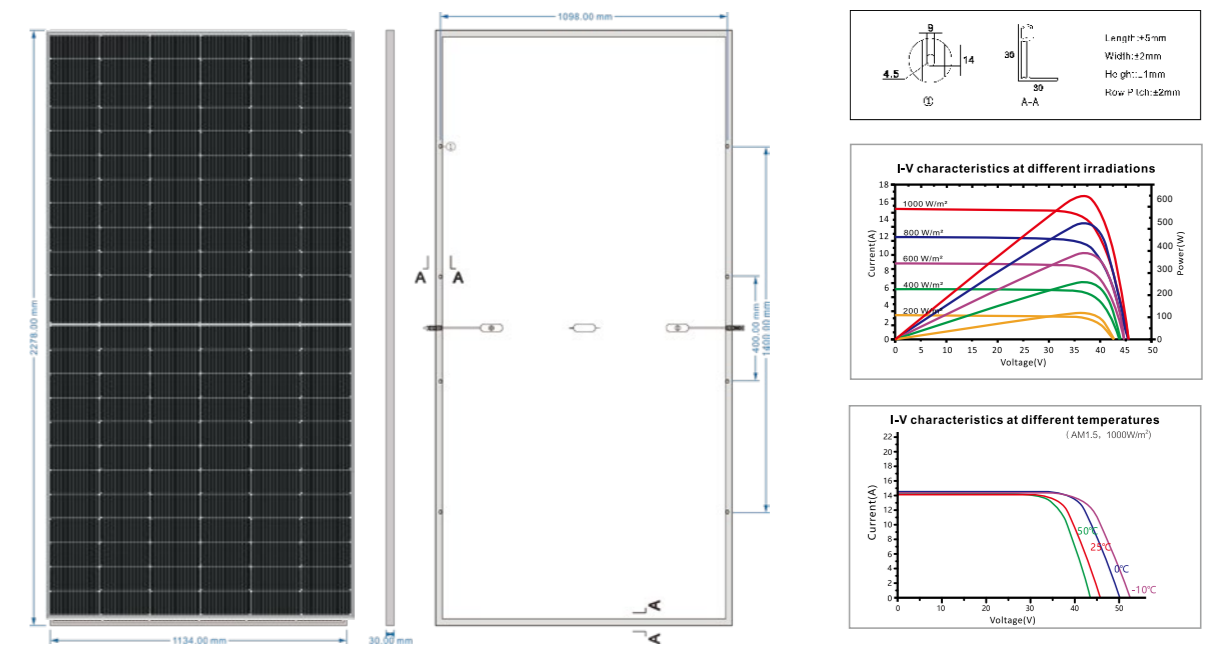
N-TopCon Technology

Enhance efficiency, reduce micro-cracks



PV Module **SERIES** 550W

Demesilo



Electrical Characteristics

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

Module Type	DS-72M10HC550W		DS-72M10HC560W		DS-72M10HC570W		DS-72M10HC580W		DS-72M10HC590W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (P _{max} /W)	550W	414W	560W	421W	570W	428W	580W	435W	590W	442W
Voltage at Maximum Power (V _{mp} /V)	42.00	39.60	42.40	40.00	42.80	40.40	43.20	40.80	43.60	41.20
Current at Maximum Power (I _{mp} /A)	13.10	10.45	13.21	10.53	13.32	10.59	13.43	10.66	13.54	10.73
Open Circuit Voltage (V _{oc} /V)	51.00	48.60	51.40	49.00	51.80	49.40	52.20	49.80	52.60	45.20
Short Circuit Current (I _{sc} /A)	13.88	11.08	14.00	11.16	14.12	11.23	14.23	11.30	14.35	11.37
Module Efficiency (%)	21.30%		21.70%		22.10%		22.50%		22.80%	

Mechanical Parameters

Cell Orientation	6*24(144)solar half cells
Junction Box	IP 68 3 diodes
Output Cable	4.0mm ² solar cable (IEC) (+) ≥ 350mm (-) ≥ 350mm or customized
Front Glass	3.2 mm, Anti-reflection Coating, High Transmission, Low Iron, Fully Strengthened Glass
Frame	35mm Anodized Aluminium Alloy
Weight	27kg (+/-0.5kg)
Dimension	2278*1134*35mm
Packaging	31pcs/pallet, 620pcs/40HQ Container

Mechanical Loading

Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

Product Warranty

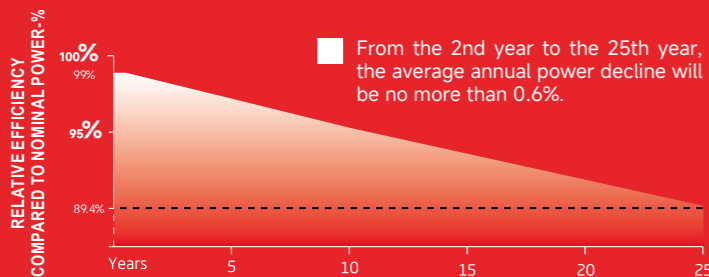
Warranty for Materials and Processing	12 Years
Warranty for Extra Linear Power Output	25 Years

Operating Parameters

Operational Temperature	-40~+85°C
Power Output Tolerance	0~5W
Voc and Isc Tolerance	± 3%
Maximum System Voltage	1000/1500VDC (IEC)
Maximum Series Fuse Rating	25A
Nominal Operational Cell Temperature	45±2°C
Protection Class	Class II
Fire Rating	UL type 1 or 2 IEC Class C

Temperature Ratings (STC)

Temperature Coefficient of Isc	0.046%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of P _{max}	-0.30%/°C



Product Warranty

12-year Warranty for Materials and Processing
25-year Warranty for Extra Linear Power Output

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