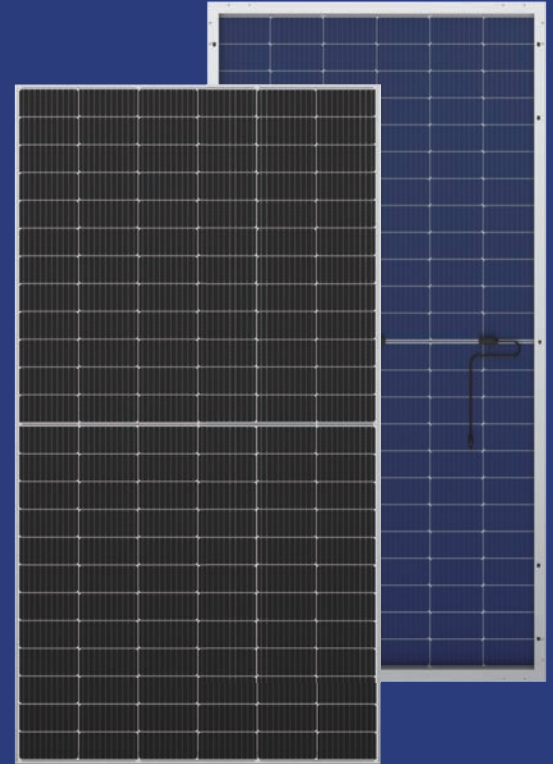










ER585W-182M **N-TOPCon** Bifacial Solar Modules

Module efficiency up to 22.64%

565W-585W



• Main Features

-  **Higher Power**
Output component power positive tolerances.
-  **Advanced Production Processes**
Optimize the current configuration of the module and increase the power generation capacity of the module.
-  **Multi-busbar Technology**
By improving the light utilization, the power is increased by 2~3% and the efficiency is increased by 0.4~0.6%.
-  **PID**
By optimizing the production process and material control, good anti-PID performance is guaranteed.
-  **Low-light Performance**
Excellent performance in low-light conditions.
-  **Withstands Harsher Environments**
Through 2400Pa wind load and 5400Pa snow load.
-  **Durability In Extreme Environmental Conditions**
High salt spray and ammonia resistance certified by TUV NORD.
-  **EL Full Inspection**
Two EL tests ensure component quality.

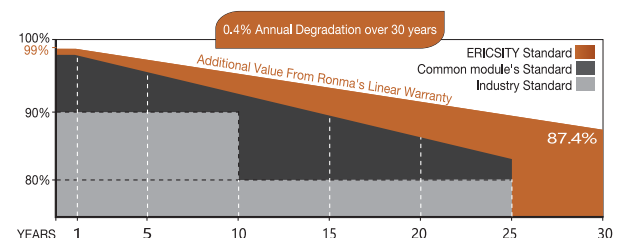
• Quality System

EC61215/IEC61730/IEC61701/IEC62716
ISO9001/ISO14001/ISO14064
OHSAS18001

• Product Certificate



• Power Output



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ELECTRICAL DATA(STC)

Model Type	ER565W-182M	ER570W-182M	ER575W-182M	ER580W-182M	ER585W-182M
Rated Power in Watts-Pmax(Wp)	610	615	620	625	630
Open Circuit Voltage-Voc(V)	55.31	55.44	55.58	55.72	55.90
Short Circuit Current-Isc(A)	14.03	14.11	14.19	14.27	14.35
Max. Power Voltage-Vmpp(V)	45.60	45.77	45.93	46.10	46.30
Max. Power Current-Imp(A)	13.38	13.44	13.50	13.56	13.61
Module Efficiency(%)	21.81	21.99	22.17	22.35	22.53

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM 1.5.
*Module conversion efficiency η: 1400 values rounded up

Electrical performance parameters with different backside efficiency gains (585W example)

Power Gain	Pmax/W	Voc/V	Isc/A	Vmpp/V	Imp/A
5%	572	51.16	15.27	42.52	14.44
10%	600	51.16	16.00	42.52	15.13
15%	627	51.16	16.73	42.52	15.82
20%	654	51.16	17.46	42.52	16.51
25%	681	51.16	18.18	42.52	17.20
30%	708	51.16	18.91	42.52	17.88

*Backside gain: Under standard test conditions, the additional gain from the backside versus the power from the front depends on parameters such as mounting (structure, height, inclination, etc.) and ground albedo.

Mechanical Property

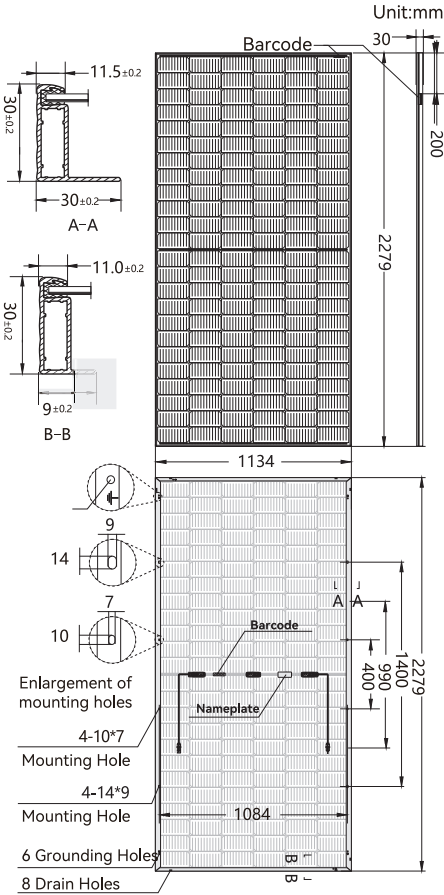
Solar Cells	Monocrystalline N-Type	Cell Size	182mmx182mm
Cell Configuration	144 (6×12+6×12)	Module Dimensions	2279×1134×30mm
J-box	IP68, 1500VDC	Weight	32kg
Connector	MC4-compatible		
Front Glass	High Transmission, Low Iron, Semi-Tempered Coated Glass 2.0mm		
Back Glass	High Transmittance, Low iron, Calendered or Pressed Glass 2.0mm		
Frame	Anodized Aluminium Alloy type 6005 T6, Silver Color		
Cables	4.0mm ² , (+) 300mm, (-) 300mm (Connector Included)		

Mechanical Property

NMOT	44°C ± 2°C	Temperature Range	-40°C ~ +85°C
Open Circuit Voltage Temperature Coefficient Short	-0.29%/°C	Maximum System Voltage	1500VDC
Circuit Current Temperature Coefficient Component	0.045%/°C	Maximum Fuse Current Rating	25A
Power Temperature Coefficient Operating Temperature	-0.25%/°C	Reverse Current Limit	30A

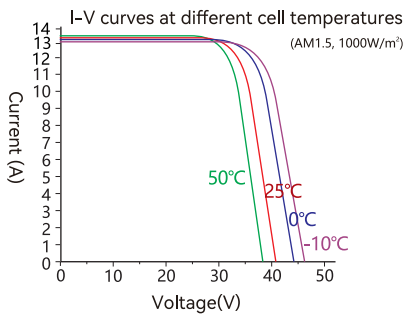
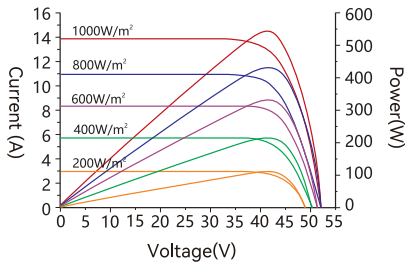
Packaging Specifications

Container	Pcs/Box	No. of Box	Pcs of 40HQ Container
40HQ	36pcs	20	720pcs



RM-550W-182M/144B

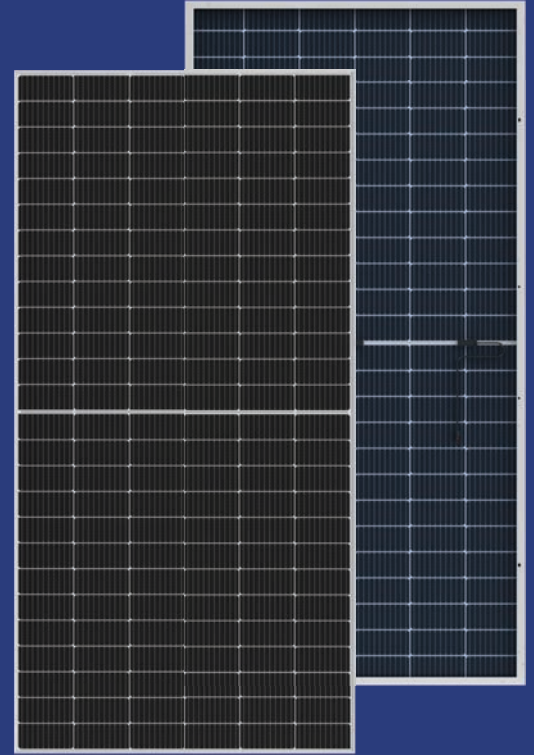
Different Irradiance, I-V Curve
Battery Temperature=25°C











ER635W-182M N-TOPCon Bifacial Solar Modules

Module efficiency up to 22.71%

610W-635W



• Main Features

-  **Higher Power**
Output component power positive tolerances.
-  **Advanced Production Processes**
Optimize the current configuration of the module and increase the power generation capacity of the module.
-  **Multi-busbar Technology**
By improving the light utilization, the power is increased by 2~3% and the efficiency is increased by 0.4~0.6%.
-  **PID**
By optimizing the production process and material control, good anti-PID performance is guaranteed.
-  **Low-light Performance**
Excellent performance in low-light conditions.
-  **Withstands Harsher Environments**
Through 2400Pa wind load and 5400Pa snow load.
-  **Durability In Extreme Environmental Conditions**
High salt spray and ammonia resistance certified by TUV NORD.
-  **EL Full Inspection**
Two EL tests ensure component quality.

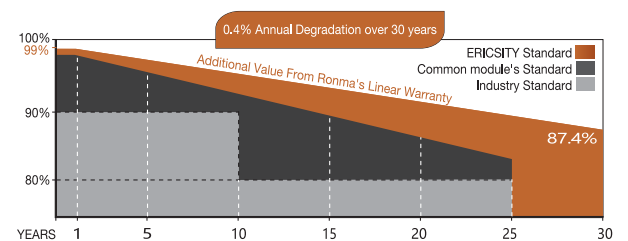
• Quality System

EC61215/IEC61730/IEC61701/IEC62716
ISO9001/ISO14001/ISO14064
OHSAS18001

• Product Certificate



• Power Output



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ELECTRICAL DATA(STC)

Model Type	ER610W-182M	ER615W-182M	ER620W-182M	ER625W-182M	ER630W-182M	ER635W-182M
Rated Power in Watts-Pmax(Wp)	610	615	620	625	630	635
Open Circuit Voltage-Voc(V)	55.31	55.44	55.58	55.72	55.90	56.10
Short Circuit Current-Isc(A)	14.03	14.11	14.19	14.27	14.35	14.40
Max. Power Voltage-Vmpp(V)	45.60	45.77	45.93	46.10	46.30	46.50
Max. Power Current-Impp(A)	13.38	13.44	13.50	13.56	13.61	13.66
Module Efficiency(%)	21.81	21.99	22.17	22.35	22.53	22.71
Maximum system voltage	1500V DC					
Limit Reverse Current (A)	30					
Temperature coefficient of open-circuit voltage	-0.30%/°C					
Temperature coefficient of open-circuit voltage	0.046%/°C					
Temperature coefficient of power	-0.25%/°C					
Bifacial factor	80±5%					

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM 1.5.

ELECTRICAL DATA(NOCT)

Model Type	ER610W-182M	ER615W-182M	ER620W-182M	ER625W-182M	ER630W-182M	ER635W-182M
Rated Power (Wp)	459	462	466	470	474	477
Open Circuit Voltage(V)	52.54	52.66	52.79	52.93	53.10	53.29
Short Circuit Current(A)	11.33	11.39	11.46	11.52	11.58	11.62
Max. Power Voltage-Vmpp(V)	42.35	42.46	42.57	42.68	42.86	43.05
Max. Power Current-Impp(A)	10.83	10.89	10.95	11.01	11.07	11.11
Power Tolerance	1500V DC					
Noct	30					
Operating Temperature	-0.30%/°C					

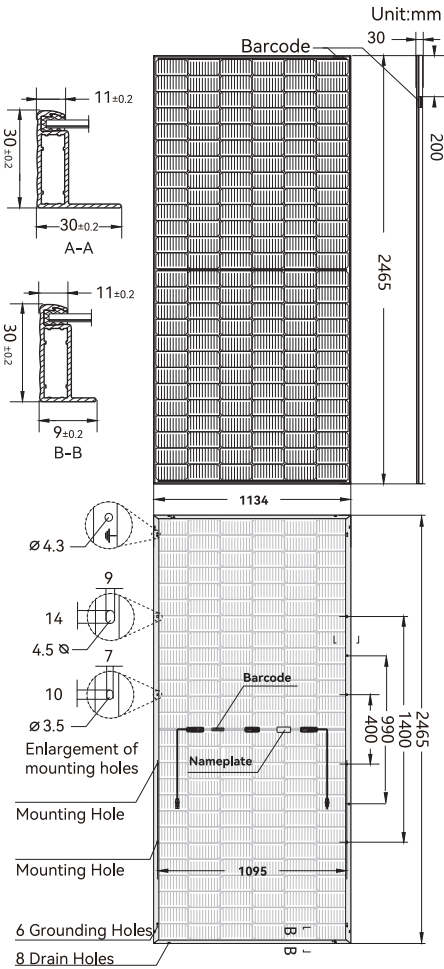
NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

Mechanical Property

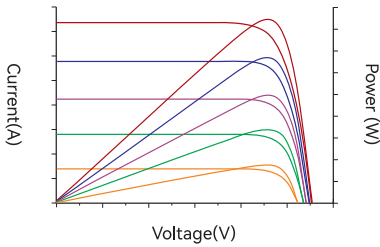
No. Of cells	156(6*13)*2	Frame(material)	Anodised aluminium alloy
Cell(quantity/dimensions)	182*91mm	Size	2465*1134*30mm
Cell type	N-TOPCon Mono	Weight	34kg
Glass thickness	2.0mm	Connector	4.0mm ² , MC4 cum packagings
Junction box	IP68	Connector length	+300mm/-200mm

Packaging Specifications

Container	Pcs/Box	No. of Box	Pcs of 40HQ Container
40HQ	36pcs	20	720pcs



Different Irradiance, I-V Curve
Battery Temperature=25°C



I-V curves at different cell temperatures
(AM1.5, 1000W/m²)

