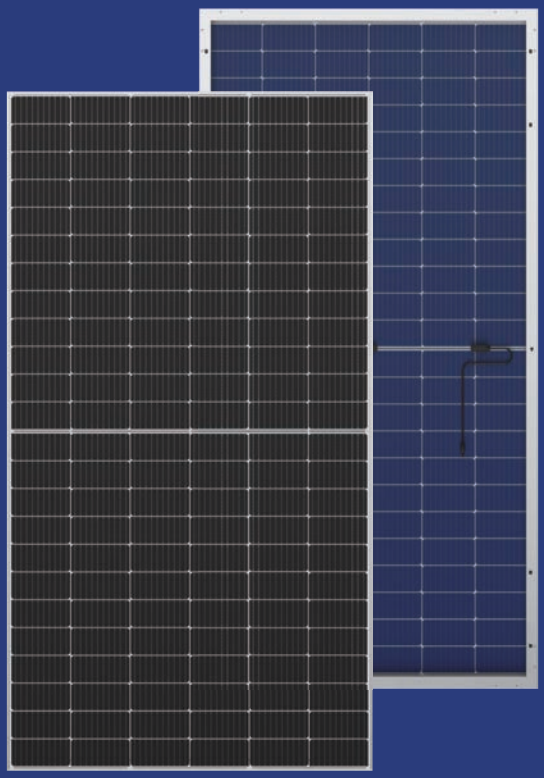
ERICSITY
Powered Green & Reliability

LUMINATING EVERY HOUSEHOLD
WITH GREEN POWER

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.

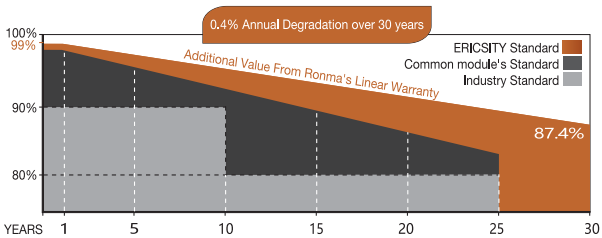
EI Full Inspection
Two EL tests ensure component quality.

Quality System

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

Product Certificate

Power Output



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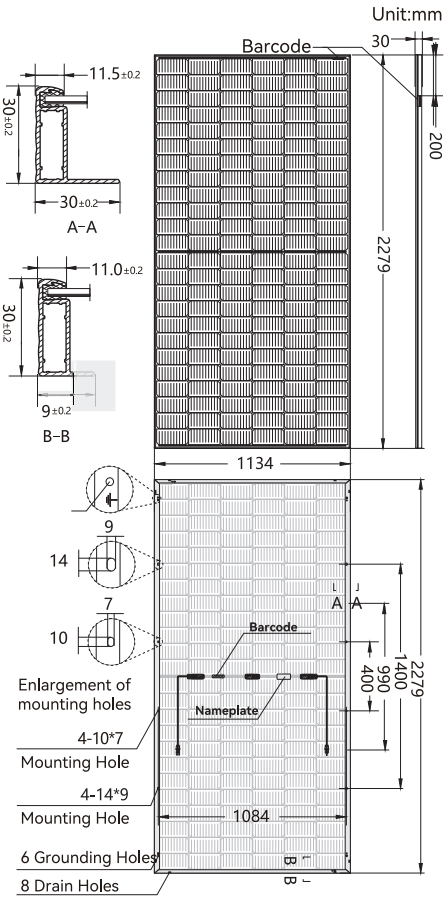
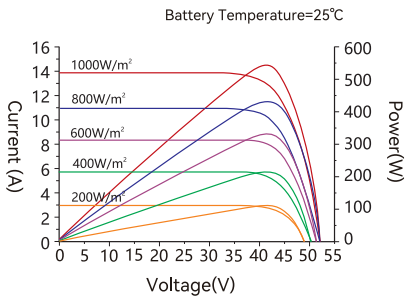
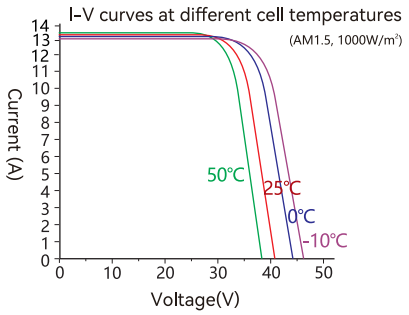


RM-550W-182M/144B

Different Irradiance, I-V Curve





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-Impp(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℃, 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	Impp/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	4.0mm², (+) 300mm, (-) 300mm (Connector Included)		

Mechanical Property

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

Packaging Specifications

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

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