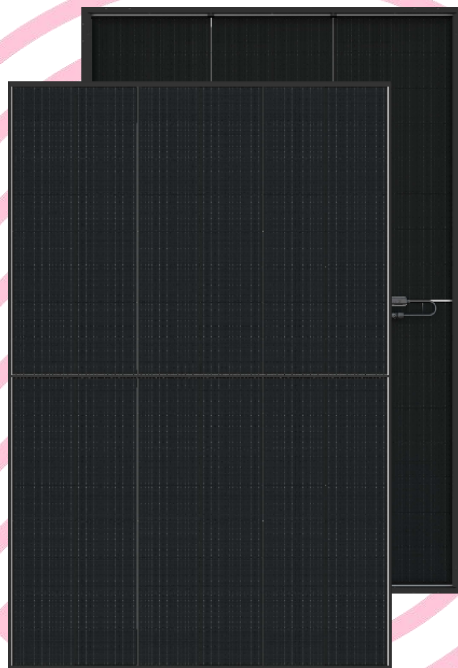


TOPCon N type Mono-crystalline 620 Watt Bifacial & Transparent Backsheet 0~+5W POWER TOLERANCE

High efficiency TOPCon N - type solar module



Module characteristics



Strong Mechanical Strength

Pass the wind load test of 2400Mpa and the snow load test of 5400Mpa



PID resistance

The attenuation probability of PID phenomenon is minimized through solar cell production technology optimization and raw material control.



Multiple busbar and Half cell technique

More light utilization and current collection capabilities, effectively improving product power output and reliability.



Lower attenuation

N-type, good reliability and lower LID/LETID attenuation.



Harsh environmental adaptation

Robust design for demanding climate conditions.



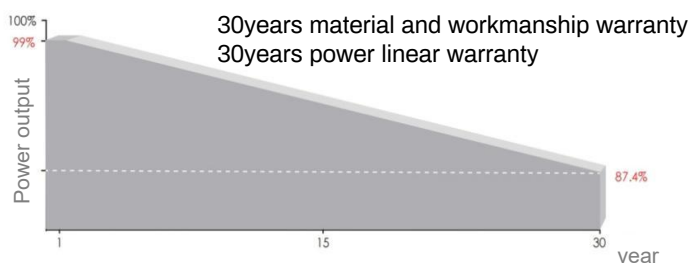
Long and reliable quality assurance

IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality management system

ISO14001:2015: Environmental management system

ISO45001:2018: Occupational health and safety management system



Electrical Parameters

Model Type	ESM-600M		ESM-605M		ESM-610M		ESM-615M		ESM-620M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	600	453	605	457	610	461	615	465	620	469
Open Circuit Voltage (Voc)	51.46	48.70	51.66	48.90	51.86	49.10	52.06	49.30	52.26	49.50
Short Circuit Current (Isc)	14.61	12.07	14.68	12.14	14.75	12.21	14.82	12.28	14.88	12.33
MaximumPowerVoltage (Vmp)	42.54	40.06	42.74	40.26	42.94	40.46	43.14	40.66	43.34	40.86
MaximumPowerCurrent (Imp)	14.10	11.31	14.16	11.35	14.21	11.39	14.26	11.44	14.31	11.48
ModuleEfficiency - η_m (%)	22.44		22.64		22.83		23.79		23.99	
Operational Temperature	-40°C~+85°C									
Maximum System Voltage	1500VDC									
Maximum Series Fuse Rating	25A									
Power Tolerance	0~+5w									
Temperature Coefficient of Pmax	-0.310%/°C									
Temperature Coefficient of Voc	-0.260%/°C									
Temperature Coefficient of Isc	+0.046%/°C									
Nominal Operating Cell Temperature	45±2°C									
Safety Class	Class II									
Max Load (Front/back)	5400Mpa/2400Mpa									

STC: Irradiance 1000W/m²

Cell temperature 25°C

Atmospheric quality =1.5

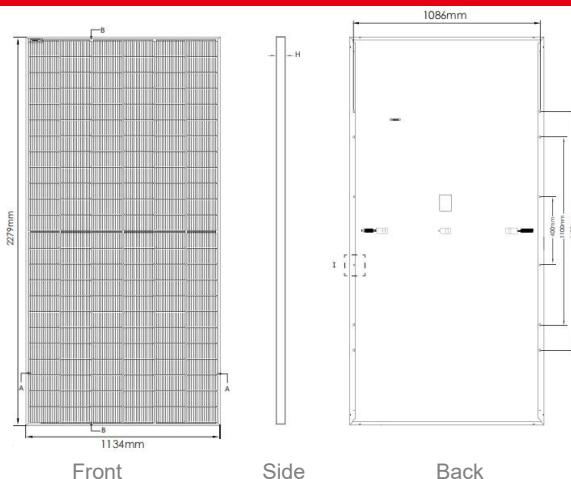
NOCT: Irradiance 800W/m²

Ambient temperature 20°C

Atmospheric quality =1.5

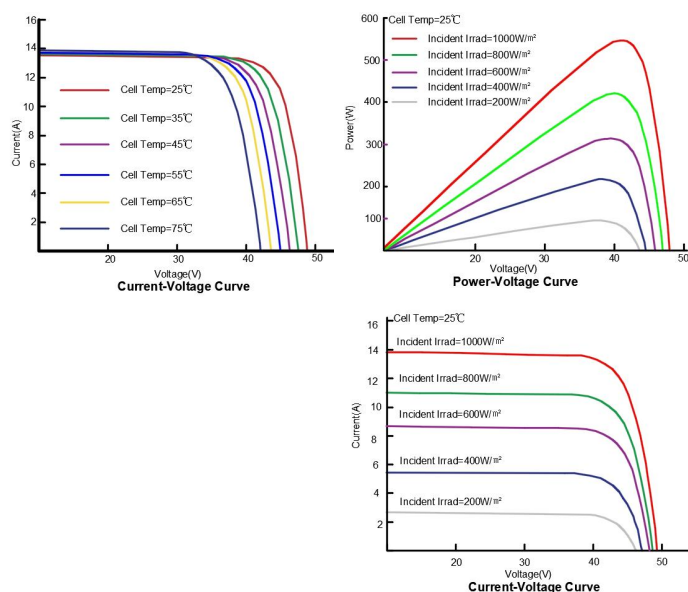
Wind speed 1m/S

Mechanical Diagrams



Length: ± 2mm
Width: ± 2mm
Thickness: ± 1mm
Hole pitch: ± 2mm

Curve



Packing Details:

36pcs/pallet, Pallet size: 2314×1130×1245mm

40GP:20pallets/40HQ, 720pcs/40'HQ

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PEOPLE'S REPUBLIC OF CHINA

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Cell: +86-138-13088384

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Website: www.einnova-solarline.com

Specification

Cell type N type mono crystalline
183.75*183.75mm

Half-cell quantity 144pcs (6×22)

Dimension 2279×1134×30mm

Weight 28kg±3%

Glass 3.2mm tempered glass

Back sheet Transparent

Frame Black Frame

Junction Box IP68

Cable 1200mm (or customized)