

N⁺ series

N-Type MONO-FACIAL MODULE

435-450W

QUALITY SYSTEM

SA 8000: ILO Standards. Social responsibility standards

ISO 9001: Quality management systems

ISO 14001: Environmental management systems

ISO 45001: Occupational health and safety management systems

ISO 50001: Energy management system

15 YEARS 15-year product warranty

30 YEARS 30-year linear power output warranty

22.5% Max. Efficiency



KEY FEATURES



Aesthetics

Designed with aesthetics in mind, the module blends harmoniously with the appearance of your house while producing high energy.



Better Performance

Our modules perform better on sunny and hot days thanks to its optimized temperature coefficient.



Excellent Quality

More than 40 years' experience of manufacturing and intensive quality tests above the IEC standard ensures reliable modules and a secured investment.



Highly Anti PID

linear power warranty with first year $\leq 1\%$ degradation and an annual degradation rate of up to 0.4% after that.

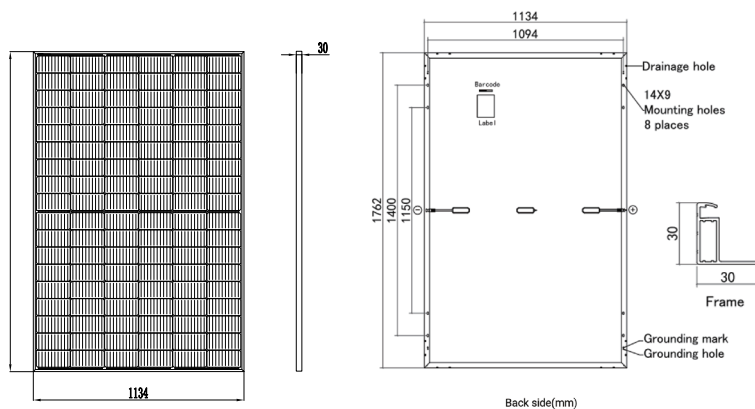


Mechanical load enhancement

Maximum wind load (2400Pa) / Maximum snow load (5400Pa)



Technical drawing



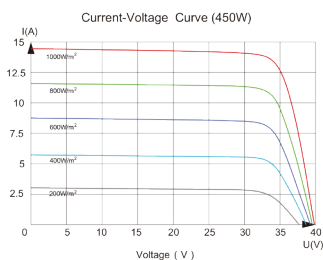
Mechanical Specifications

Cell Type	N -type Mono-crystalline, , 108 (6x18)
Dimension	1762 × 1134 × 30mm
Weight	20.6kg
Front Glass	3.2 mm tempered solar glass with anti -reflective coating
Connector Type	PV-ZH202B or MC4 (1000V)
Back Glass	Backsheet
Junction Box	IP68 / 3 diodes
Output Cables	4mm ² / Portrait: 350mm (+)/250mm(-)/ Landscape: 1100mm(+)/1100mm(-) (Customized Length)

Electrical Characteristics

Module Type	QM182THCD435-54	QM182THCD440-54	QM182THCD445-54	QM182THCD450-54
Testing Condition	STC	STC	STC	STC
Maximum Power[W]	435	440	445	450
Maximum Power Voltage[V]	32.64	32.84	33.04	33.24
Maximum Power Current[A]	13.33	13.40	13.47	13.54
Open circuit voltage[V]	39.20	39.40	39.60	39.80
Short Circuit Current[A]	13.83	13.90	13.97	14.04
Module Efficiency	21.80%	22.00%	22.30%	22.50%
Operating Temperature	-40℃~+85℃			
Maximum System Voltage	DC1000V			
Maximum Series Fuse Rating	25A			
Power Tolerance[W]	0~+3W			
Voc Temperature Coefficient	-0.25%/℃			
Pmax Temperature Coefficient	-0.29%/℃			
Isc Temperature Coefficient	0.048%/℃			
Nominal Opearting Module Temperature	42±2℃			

Characteristic



Certifications

IEC 61215, IEC 61730
 IEC 62716 : Ammonia Corrosion Test
 IEC 61701: Salt Mist Corrosion Test
 IEC TS 62804: PID
 IEC TS 63342: LeTID
 IEC 60068: Dust & Sand

Level

Security Protection Class II

Packing Configuration

Pallet	36pcs/Pallet
Container	40/HQ
Number of Container	936