

Solavita

A SKYWORTH Company

N⁺ series

N-Type MONO-FACIAL MODULE

490-510W

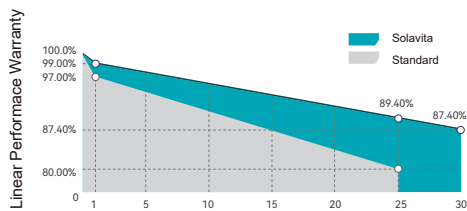
QUALITY SYSTEM

IEC 61215(2021), IEC 61730(2018)

ISO 9001:2015: Quality management systems

ISO 14001:2015: Environmental management systems

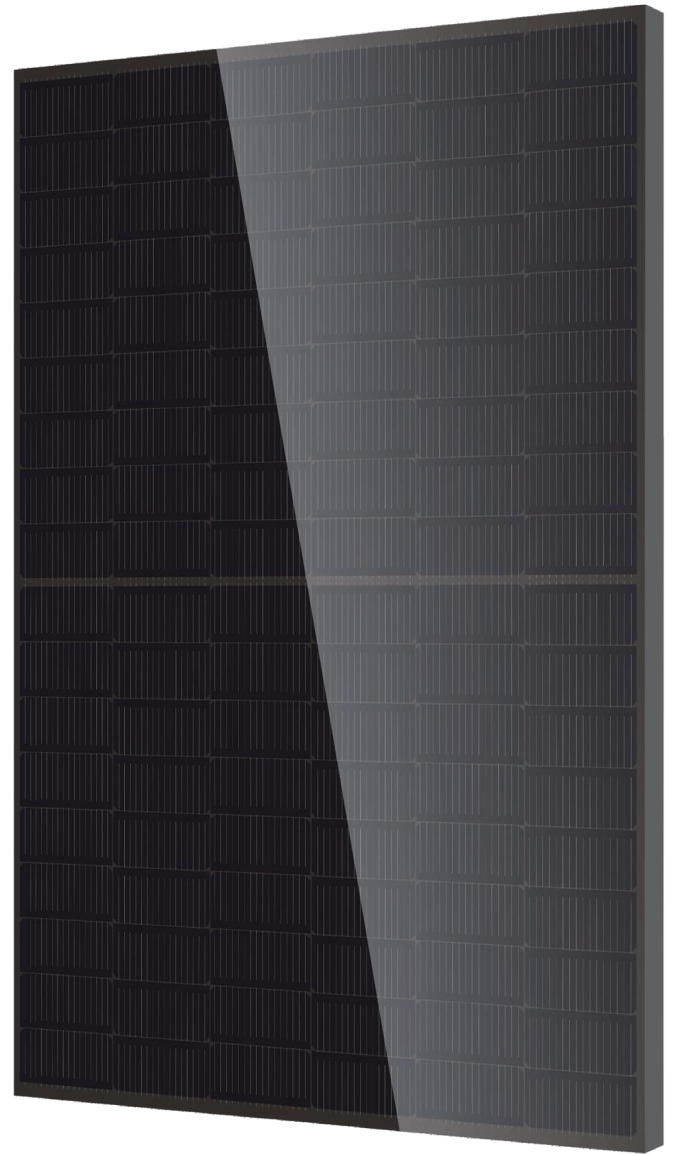
ISO 45001:2018: Occupational health and safety management systems



15 YEARS 15-year product warranty

30 YEARS 30-year linear power output warranty

0.4% Year 2-30 power degradation



KEY FEATURES



Bifacial Energy Yield | N-type Silicon Wafer

Additional power generation from the backside of bifacial modules increases the overall energy yield



Better low irradiance response

Superior power generation under shading conditions



Improvement in power generation performance

Conversion efficiency reached 22.89%



Highly Anti PID

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

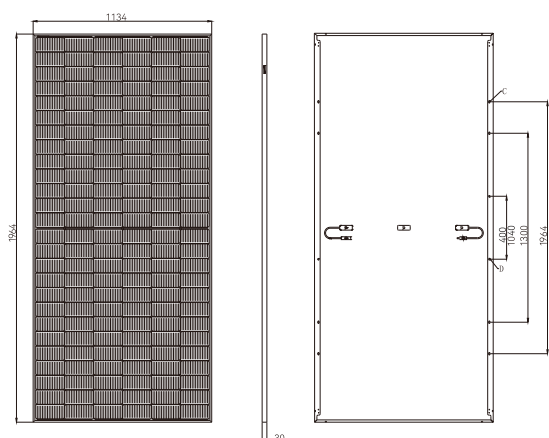


Mechanical load enhancement

Maximum wind load (3600Pa) / Maximum snow load (5400Pa)



Technical drawing



Mechanical Specifications

Solar Cells 108(54×2)

Dimension 1964 × 1134 × 30mm

Weight 28.2kg

Front Glass 2.0mm tempered Glass, high transparency

Back Glass 2.0mm heat-tempered glass

Frame anodized aluminium alloy

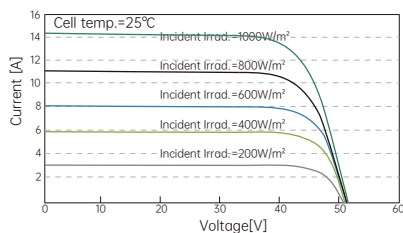
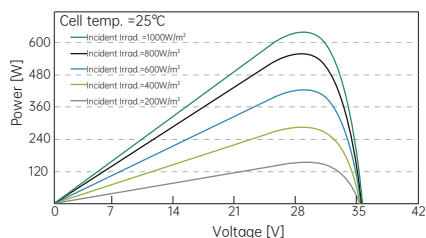
Junction Box IP68 / 3 diodes

Output Cables 4mm² / +300mm -300mm (Customized Length)

Electrical Characteristics

Module Type	QM210THCD49.5-54	QM210THCD500-54	QM210THCD505-54	QM210THCD635-54
	STC	STC	STC	STC
Maximum Power [W]	495	500	505	510
Maximum Power Voltage [V]	32.85	33.05	33.25	33.45
Maximum Power Current [A]	15.07	15.13	15.19	15.25
Open circuit voltage [V]	39.80	40.00	40.20	40.40
Short Circuit Current [A]	15.81	15.88	15.95	16.02
Module Efficiency [%]	22.22	22.45	22.67	22.89
Operating Temperature	-40℃~+85℃			
Maximum System Voltage	DC1500V			
Maximum Series Fuse Rating	25A/30A			
Power Tolerance[W]	0~+5W			
Voc Temperature Coefficient	-0.28%/℃			
Pmax Temperature Coefficient	-0.29%/℃			
Isc Temperature Coefficient	0.04%/℃			
Nominal Opearting Cell Temperature	45±2℃			

Characteristic



Level

Fire Performance C

Security Protection Class II

Packing Configuration

Pallet 36pcs/Pallet

Container 864pcs/40HQ Container