

N⁺ series

Anti-dust accumulation/All-Black Solar Panels-54X

410-430W

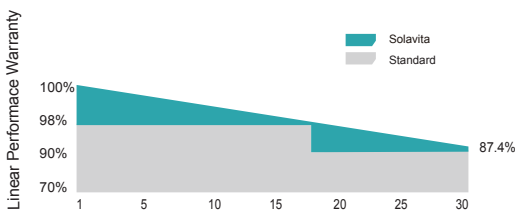
QUALITY SYSTEM

IEC 61215(2021), IEC 61730(2021)

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



Anti-dust accumulation curved design

Reducing the impact of dust accumulation
Improving life-cycle power generation
Reduces cleaning frequency.



Highly Anti PID

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

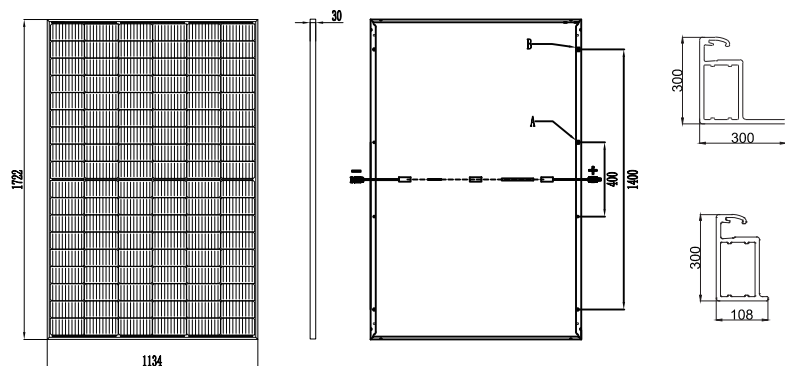


Mechanical load enhancement

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



Technical drawing



Mechanical Specifications

Solar Cells	182×91mm
Dimension	1722 × 1134 × 30mm
Weight	21.3kg
Front Glass	2.0mm tempered Glass, high transparency
packing configuration	EVA/POE
Back Glass	2.0mm heat-tempered glass
Frame	anodized aluminium alloy
Junction Box	IP68 / 3 diodes
Output Cables	4mm ² / +450mm -250mm (Customized Length)

Electrical Characteristics

Module Type QM182THCD410-54X QM182THCD415-54X QM182THCD420-54X QM182THCD425-54X QM182THCD430-54X

	STC	STC	STC	STC	STC
Maximum Power[W]	410	415	420	425	430
Maximum Power Voltage[V]	31.45	31.62	31.80	31.98	32.16
Maximum Power Current[A]	13.04	13.12	13.21	13.29	13.37
Open circuit voltage[V]	37.75	37.92	38.09	38.26	38.43
Short Circuit Current[A]	14.02	14.05	14.08	14.11	14.14
Module Efficiency	21.00%	21.25%	21.51%	21.76%	22.02%

Operating Temperature -40℃~+85℃

Maximum System Voltage DC1000V/1500V

Maximum Series Fuse Rating 30A

Power Tolerance[W] 0~+5W

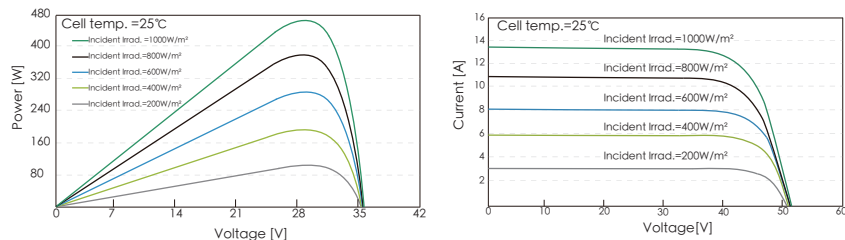
Voc Temperature Coefficient -0.28%/℃

Pmax Temperature Coefficient -0.29%/℃

Isc Temperature Coefficient 0.04%/℃

Nominal Operating Cell Temperature 45±2℃

Characteristic



Level

Fire Performance C

Security Protection Class II

Packing Configuration

Pallet 36pcs/Pallet

Container 20/GP 40/HQ

Number of Container 216 936