



100-400w

High Efficiency Solar Panels



PERC

182*182mm

• MODULE ADVANTAGE



Ultralight

Approximately 70% lighter than conventional solar panels.



Aesthetic

Adheres perfectly to the surface without affecting aesthetics.



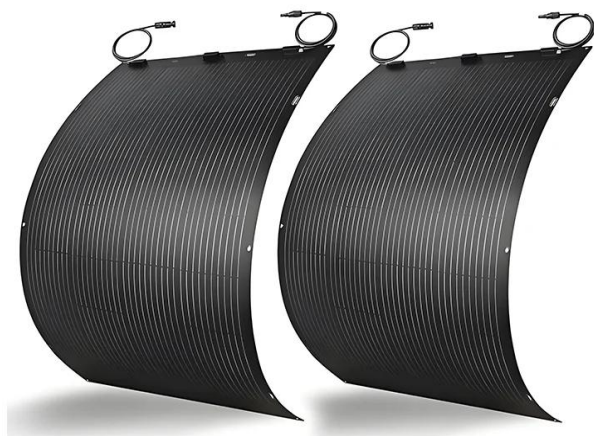
Customizable

Customized according to customer requirements.



High safety factor

Don't damage the surface structure of vehicles or vessels,
Don't affect safety performance.



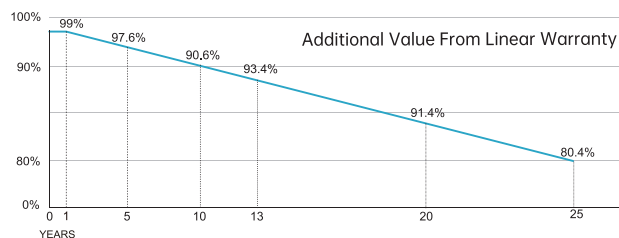
• QUALITY SYSTEM

ISO9001 / ISO14001 / ISO45001

• PRODUCT CERTIFICATION



• WARRANTY



90% Power Output



80% Power Output

QC Solar Corporation

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Mechanical Specifications

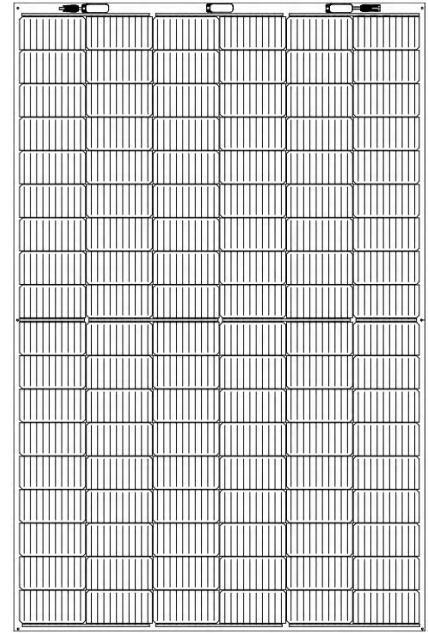
External Dimension	Customized specifications
Weight	Subject to the practice
Solar Cells	PERC/TOPCon 182 x 182mm
Front / Back Material	High-transmittance ETFE/PET
Number Of Holes	6
Junction Box	IP68
Output Cables	4.0mm ² /6.0mm ² ,250mm(+)/350mm(-) or Customization

Electrical Characteristics

Module Type	QCSTARS-FP-100	QCSTARS-FP-200	QCSTARS-FP-400
	Front STC	Front STC	Front STC
Maximum Power -P _{mp} (W)	100	200	400
Open Circuit Voltage -V _{oc} (V)	19.8	19.8	37.15
Short Circuit Current -I _{sc} (A)	7.56	15.12	14.31
Maximum Power Voltage -V _{mp} (V)	16.5	16.5	30.96
Maximum Power Current -I _{mp} (A)	6.96	13.93	13.25
Module Efficiency STC-η _m (%)	16.34	18.33	20.54
Power Tolerance (W)	(0, +3%)		

STC: Irradiance 1000 W/m² module temperature 25°C AM=1.5 Power measurement tolerance: +/-3%;Voltage measurement tolerance: +/-3%;Current measurement tolerance: +/-4%

Technical Drawing(QCSTARS-FP-400)



Electrical Parameter At NMOT Test Conditions

Item	100W	200W	400W
Maximum Power -P _{mp} (W)	73.6	147.2	294.4
Open Circuit Voltage -V _{oc} (V)	18.61	18.61	34.92
Short Circuit Current -I _{sc} (A)	6.11	12.22	11.56
Maximum Power Voltage -V _{mp} (V)	15.51	15.51	29.10
Maximum Power Current -I _{mp} (A)	5.62	11.27	10.71

NMOT: Irradiance 800 W/m², Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s

Temperature Ratings

Pmax Temperature Coefficient	-0.35%/°C
Voc Temperature Coefficient	-0.28%/°C
Isc Temperature Coefficient	+0.048%/°C

Application Conditions

Maximum System Voltage	1000V/1500V DC
Maximum Series Fuse Rating	Customer Requirement
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature	44±2 °C

I-V Curve

