



30-400w

High Efficiency Solar Panels

PERC

182*182mm

• PERC MODULE ADVANTAGE



Multi-Busbar Technology



Superior Load Capacity



High Module Efficiency



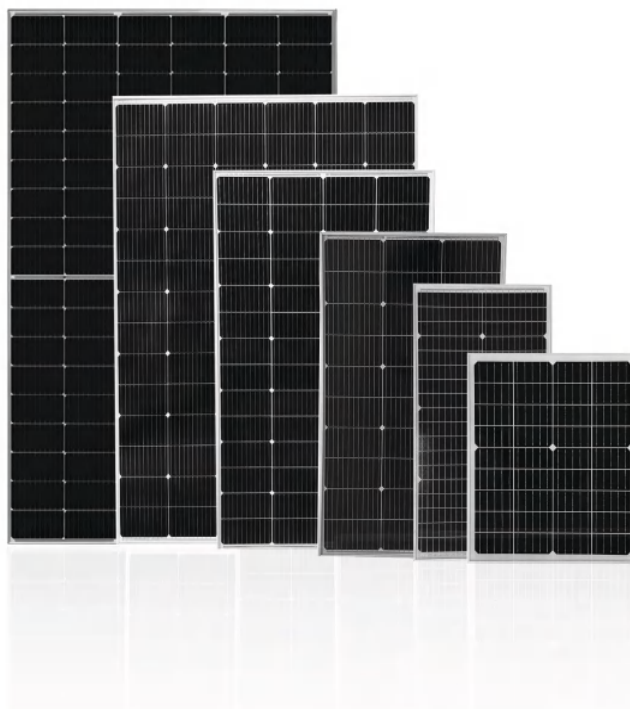
Lower Annual Attenuation
Longer Warranty



Higher Bifaciality



Reduce Hot Spot Effect



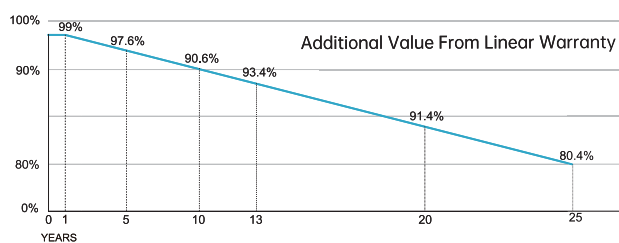
• QUALITY SYSTEM

ISO9001 / ISO14001 / ISO45001

• PRODUCT CERTIFICATION



• WARRANTY



90% Power Output



80% Power Output

QC Solar Corporation

QC Solar (SuZhou) Corporation
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Email: info@qc-stars.com

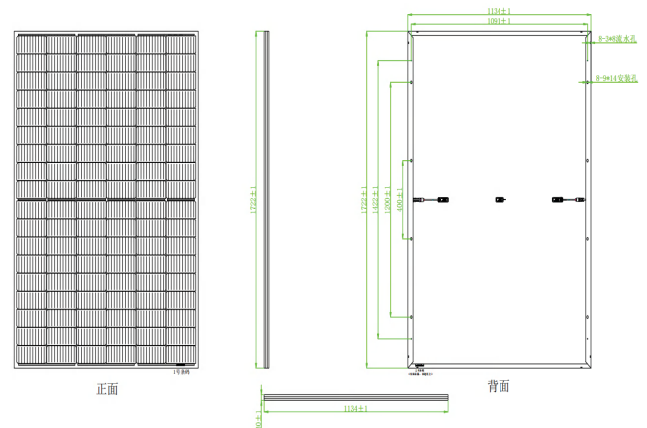
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Mechanical Specifications

External Dimension	Customized specifications
Weight	Subject to the practice
Solar Cells	PERC 182 x 182mm
Front / Back Material	3.2mm AR coating semi-tempered glass, low iron/PET
Frame	Customized specifications anodized aluminium alloy
Junction Box	IP68
Output Cables	4.0mm ² /6.0mm ² ,250mm(+)/350mm(-) or Customized Length

Technical Drawing(QCSTARS-GP-400)



Electrical Characteristics

Module Type	QCSTARS-GP-30	QCSTARS-GP-50	QCSTARS-GP-100	QCSTARS-GP-200	QCSTARS-GP-300	QCSTARS-GP-400
	Front STC	Front STC	Front STC	Front STC	Front STC	Front STC
Maximum Power -P _{mp} (W)	30	50	100	200	300	400
Open Circuit Voltage -V _{oc} (V)	24.19	25.06	20.52	39.31	28.22	37.15
Short Circuit Current -I _{sc} (A)	1.61	2.6	6.32	6.6	13.78	14.31
Maximum Power Voltage -V _{mp} (V)	20.16	20.88	17.1	32.76	23.52	30.96
Maximum Power Current -I _{mp} (A)	1.49	2.4	5.85	6.11	12.76	13.25
Module Efficiency STC-η _m (%)	15.93	17.34	17.62	19.31	19.67	20.48
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%

Electrical Parameter At NMOT Test Conditions

Item	30W	50W	100W	200W	400W
Maximum Power -P _{mp} (W)	22.08	36.8	73.6	147.2	294.4
Open Circuit Voltage -V _{oc} (V)	22.74	23.56	19.29	36.95	34.92
Short Circuit Current -I _{sc} (A)	1.3	2.1	5.11	5.33	11.56
Maximum Power Voltage -V _{mp} (V)	18.95	19.63	16.07	30.79	29.1
Maximum Power Current -I _{mp} (A)	1.2	1.94	4.73	4.94	10.71

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

Temperature Ratings

Pmax Temperature Coefficient	-0.400%/°C
Voc Temperature Coefficient	-0.300%/°C
Isc Temperature Coefficient	+0.052%/°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

