









SIV N-TOPCON SERIES

Small Changes, Big Accomplishments

465-480W



• N-TOPCON MODULE ADVANTAGE

-  Multi-main gate technology
-  Superior load capacity
-  High module conversion efficiency
-  Excellent low-light performance
-  Low attenuation long warranty
-  Low BOS and KWH cost
-  Reduce heat spot effect
-  Higher bifacially

• QUALITY SYSTEM

ISO9001 / ISO14001 / ISO45001

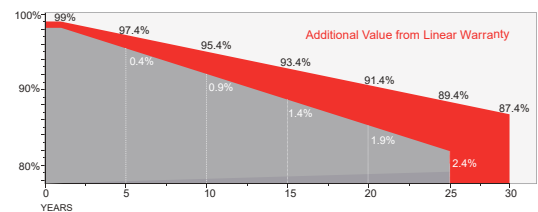
• PRODUCT CERTIFICATION



• INSURANCE

PICC

• WARRANTY



Guarantee on product material and workmanship



Linear power output warranty



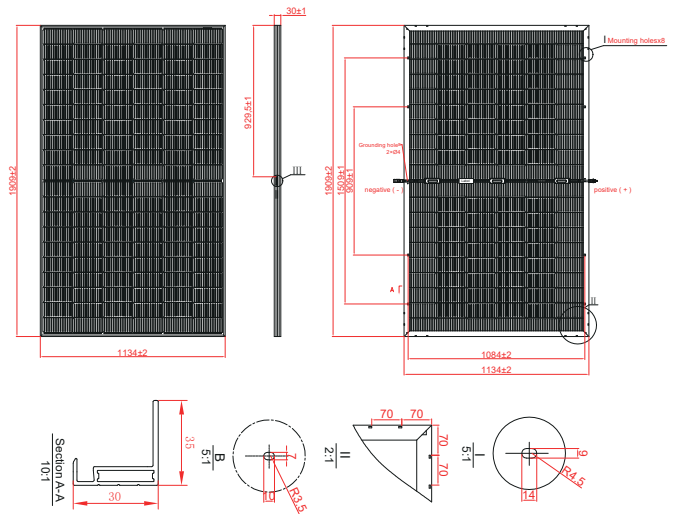
Mechanical Specifications

External Dimension	1909 x 1134 x 30 mm
Weight	27.3 kg
Solar Cells	N-TOPCon 182 x 91mm (120 pcs)
Front / Back Glass	2.0mm AR coating semi-tempered glass, low iron
Frame	Anodized aluminium alloy
Junction Box	IP68, 3 diodes
Output Cables	4.0mm ² , 250mm(+)/350mm(-) or Customized Length
Connector	Genuine MC4 EVO2/Cuangda TT02 / QC Solar QC4.10-cd
Fire Safety Class	Class A

Packing Configuration

Container	20'GP	40'HQ
Pieces per Pallet	36	36
Pallets per Container	5	24
Pieces per Container	180	864

Technical drawing



Electrical Characteristics

Module Type	SRP-465-BTB-BG			SRP-470-BTB-BG			SRP-475-BTB-BG			SRP-480-BTB-BG		
	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC
Maximum Power -P _{mp} (W)	465	349	372	470	353	376	475	357	380	480	361	384
Open Circuit Voltage -V _{oc} (V)	42.60	40.47	42.58	42.80	40.66	42.78	43.00	40.85	42.98	43.20	41.04	43.18
Short Circuit Current -I _{sc} (A)	13.82	11.06	11.06	13.88	11.10	11.10	13.94	11.15	11.15	14.00	11.20	11.20
Maximum Power Voltage -V _{mp} (V)	35.40	33.20	35.42	35.60	33.40	35.60	35.80	33.63	35.82	36.00	33.83	36.02
Maximum Power Current -I _{mp} (A)	13.14	10.51	10.51	13.21	10.57	13.21	13.27	10.62	10.61	13.34	10.67	10.67
Module Efficiency STC-η _m (%)	21.48			21.71			21.94			22.17		
Power Tolerance (W)	(0, +4.99)											
Pmax Temperature Coefficient	-0.30 %/°C											
Voc Temperature Coefficient	-0.25 %/°C											
Isc Temperature Coefficient	+0.046 %/°C											

STC: Irradiance 1000 W/m²; module temperature 25°C AM=1.5 Power measurement tolerance: +/-3%; Voltage measurement tolerance: +/-2%; Current measurement tolerance: +/-4%
 NOCT: Irradiance 800 W/m²; ambient temperature 20°C wind speed :1m/s Power measurement tolerance: +/-3%; Voltage measurement tolerance: +/-2%; Current measurement tolerance: +/-4%

Rear Side Power Gain(SRP-470-BTB-BG)

Power Gain	10%	15%	20%	25%	30%
Maximum Power -P _{mp} (W)	517	541	564	588	611
Open Circuit Voltage -V _{oc} (V)	42.80	42.80	42.80	42.80	42.80
Short Circuit Current -I _{sc} (A)	15.27	15.96	16.66	17.35	18.04
Maximum Power Voltage -V _{mp} (V)	35.60	35.60	35.60	35.60	35.60
Maximum Power Current -I _{mp} (A)	14.53	15.19	15.85	16.51	17.17

Application Conditions

Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	25 A
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature	45±2 °C
Bifaciality	80%±5%
Mechanical Load	Front side 5400 Pa / Back side 2400 Pa

I-V Curve

