



CIPRO-TN9C54M(H)

470 - 500W

Single Glass
Full Black

- Partial Shading Optimisation
- Better Temperature Coefficient
- High Temperature Restriction
- Micro-crack Resistance
- More Aesthetic Values
- Excellent Anti-LID & Anti-PID Performance

15

15-year Warranty for Materials and Processing

30

30-year Warranty for ExtraLinear Power Output

IEC 61215 / IEC 61730

ISO 9001: 2015 Quality Management System

ISO 14001: 2015 Environment Management System

ISO 45001: 2018 Occupational Health and Safety Management Systems



500W

Output

24.5%

Efficiency

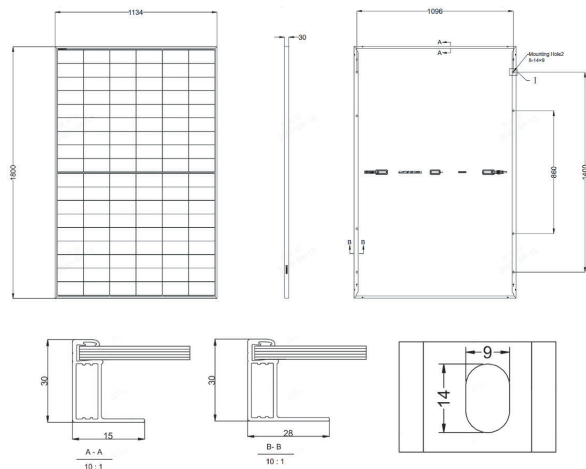
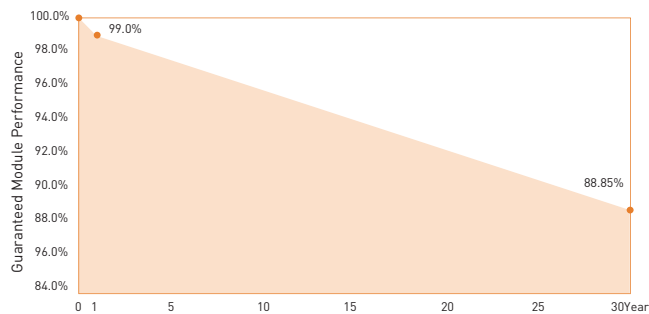
≤ 1%

First-year Degradation

≤ 0.35%

Annual Degradation from Year 2-30

30 - year Linear Performance Warranty



Tolerance

L: ±2mm

W: ±2mm

Unit: mm

Electrical Characteristics(STC: AM1.5 1000W/m² 25 °C NOCT: AM1.5 800W/m² 20 °C 1m/s)

Power Tolerance: 0~+3%

Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P _{max} [W]	470	354	475	358	480	362	485	366	490	370	495	373	500	377
V _{ov} [V]	40.37	38.12	40.51	38.26	40.65	38.39	40.89	38.52	40.93	38.65	41.07	38.79	41.21	38.92
V _{mp} [V]	33.48	31.62	33.58	31.71	33.68	31.81	33.94	31.90	33.88	32.00	33.98	32.09	34.08	32.19
I _{sc} [A]	14.86	12.02	14.93	12.07	15.00	12.13	15.03	12.19	15.14	12.24	15.21	12.30	15.28	12.36
I _{mp} [A]	14.05	11.21	14.15	11.29	14.26	11.38	14.30	11.47	14.47	11.55	14.58	11.63	14.68	11.72
Module Efficiency	23.0%		23.3%		23.5%		23.8%		24.0%		24.3%		24.5%	

Product Specification

Cell Type	GBC
Glass	3.2 mm tempered glass
Frame	Black anodized aluminum
Cable	TüV 1×4mm , (+)300mm, (-)200mm or Customized Length
No. of Cells	108 (6×18)
Junction Box	IP68, 3 bypass diodes
Connector	MC4 Compatible/MC4-Evo2
Weight	21.4 kg (47.18 lbs)
Dimension	1800×1134×30mm
Package Detail	37 pcs per pallet/222 pcs per 20' GP 888 pcs per 40' HC

Temperature Ratings (STC)

Temperature Coefficient of I _{sc}	+ 0.05%/ °C
Temperature Coefficient of V _{oc}	- 0.22%/ °C
Temperature Coefficient of P _{mx}	- 0.26%/ °C

Installation Guide

Operation Temperature	-40 °C ~ +85 °C
Maximum Series Fuse Rating	25A
Protection Class	Class II
V _{oc} and I _{sc} Tolerance	±3%
Maximum System Voltage	DC1500V
Maximum Static Loading	Front 5400Pa Back 2400Pa
Hail Test	25 mm diameter hail at 23 m/s
Fire Rating	IEC Class C

