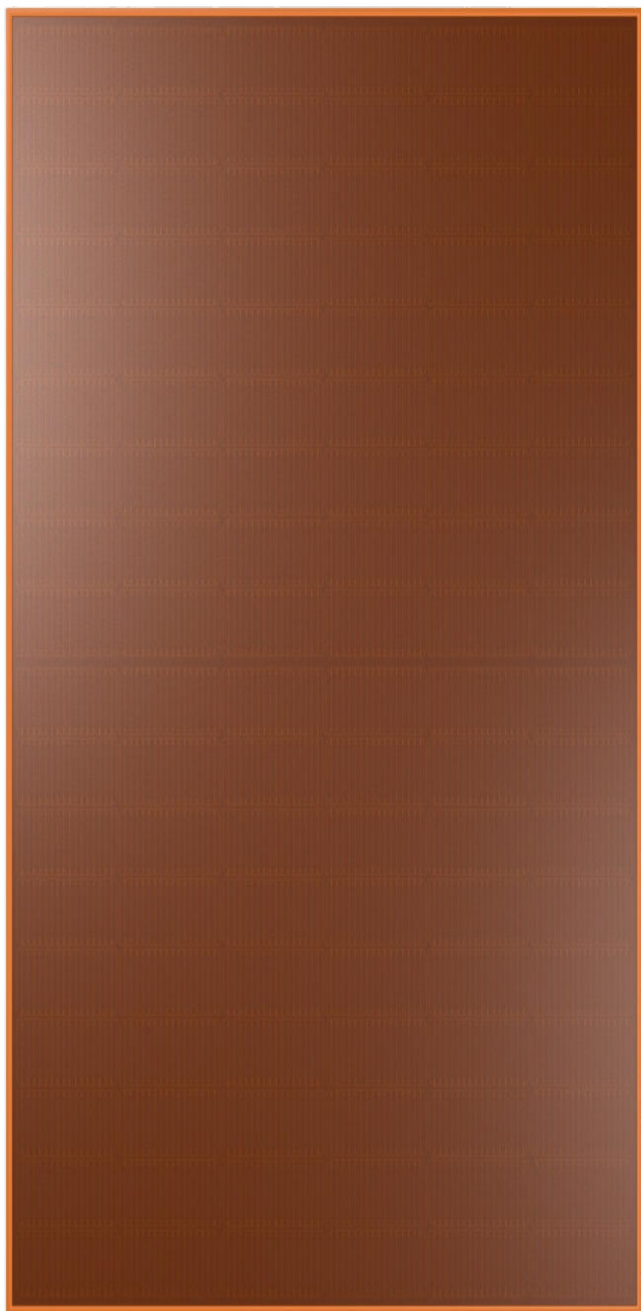




Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance certified by TUV NORD.



PID Resistance

Excellent Anti-PID performance guarantee limited power degradation for mass production. (Potential Induced Degradation) under the test conditions.



High Efficiency

Higher module conversion efficiency(up to 21.48%) benefit from half cell structure(low resistance characteristic).



Low-light Performance

Advanced glass and cell surface textured design ensure excellent performance in low-light environment.



Severe Weather Resilience

Certified to withstand: Wind load (2400 pascal) and snow load (5400 pascal).



12-year Warranty for
Materials and Processing



25-year Warranty for
Extra Linear Power Output



182 Mono Series

CMM-495-515/144

495-515W

Half-Cell High Efficiency PV Module

Weight

28.6kg ±3%

Cells Type

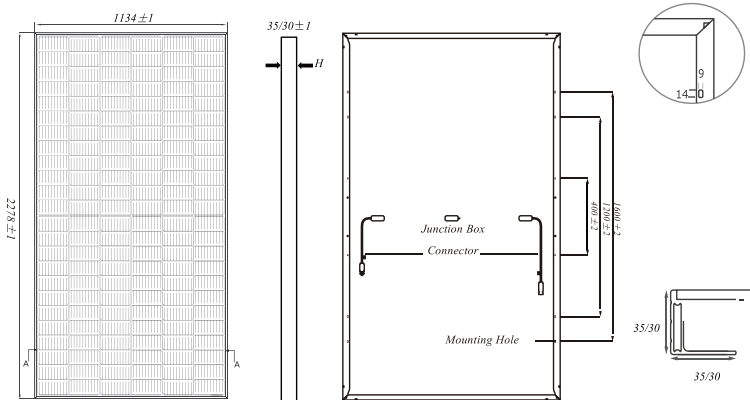
Mono 182×91mm

Dimension (L×W×T)

2278±1mm×1134±1mm×35/30±1mm

Packaging

31pcs/37pcs/pallet, 620pcs/740pcs/40HQ container



Front Side Back
Remark: customized frame color and cable length available upon request

MECHANICAL SPECIFICATION

Cell	Mono
No.of cells	144(6×24)
Cable Length	300mm (+) /300mm (-)
Cable Cross Section Size	4mm ² (IEC)
Junction Box	IP68,3 diodes
Connector	MC4 Compatible

OPERATING PARAMETERS

Maximum System Voltage	1500V DC
Operating Temperature	-40℃ ~ +85℃
Maximum Series Fuse	25A
Maximum StaticLoad,Front	5400Pa(112lb/ft ²)
Maximum StaticLoad,Back	2400Pa(50lb/ft ²)
Safety Class	Class II

ELECTRICAL CHARACTERISTICS STC:AM1.5 1000W/m² 25℃ NOCT :AM1.5 800W/m² 20℃ 1m/s Test uncertainty for Pmax ±3%

Module Type	CMM-495/144		CMM-500/144		CMM-505/144		CMM-510/144		CMM-515/144	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	495	403.0	500	406.8	505	410.5	510	414.3	515	420.0
Open Circuit Voltage (Voc/V)	49.45	46.26	49.60	46.40	49.75	46.54	49.90	46.68	50.02	46.85
Short Circuit Current (Isc/A)	13.79	11.13	13.86	11.19	13.93	11.24	14.00	11.30	14.07	11.21
Voltage at Maximum Power (Vmp/V)	41.47	38.20	41.64	38.36	41.80	38.52	41.96	38.68	42.11	39.66
Current at Maximum Power (Imp/A)	11.90	10.55	12.00	10.60	12.08	10.66	12.15	10.71	12.23	10.59
Module Efficiency(%)	19.17		19.36		19.55		19.75		19.94	

TEMPERATURE RATINGS

Normal Operating Cell Temperature(NOCT)	45±2℃
Temperature Coefficient of Isc	+0.045%/℃
Temperature Coefficient of Voc	-0.275%/℃
Temperature Coefficient of Pmax	-0.350%/℃

ADDITIONAL VALUE

