

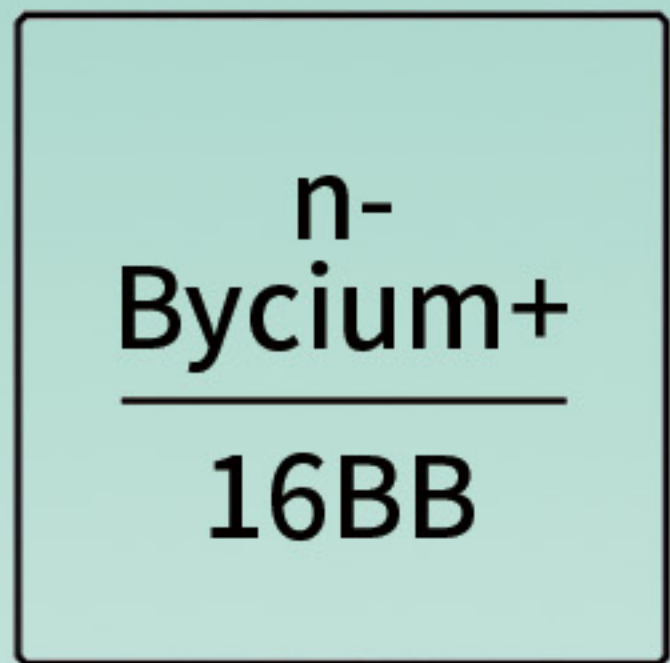


ROC N-type Series Modules **570-595W**

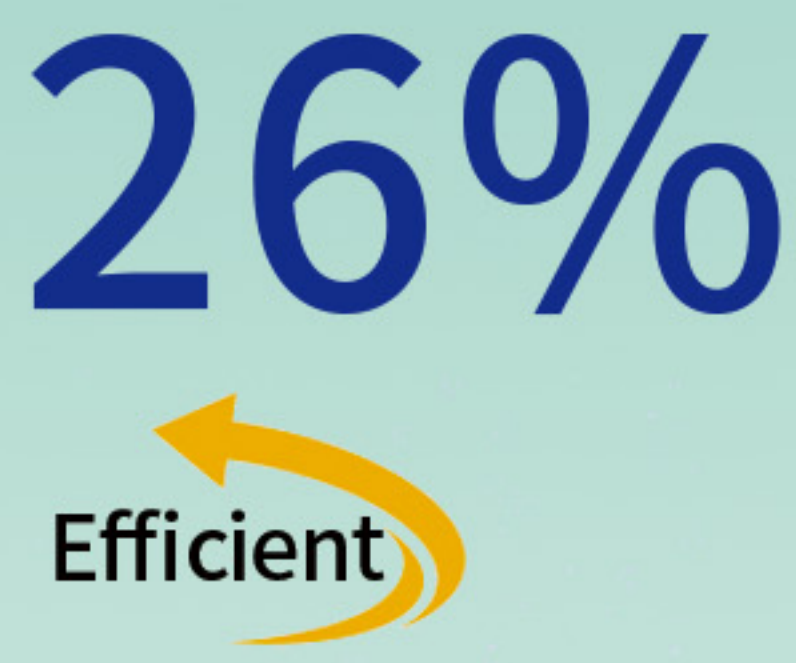
YSM-72HG N-type Bifacial Double-Glass

PV Module

Better Cells



Multi-Busbar
Half-Cut Technology



High Cell Conversion
Efficiency



More Reliable Modules



Superior
Power
Generation



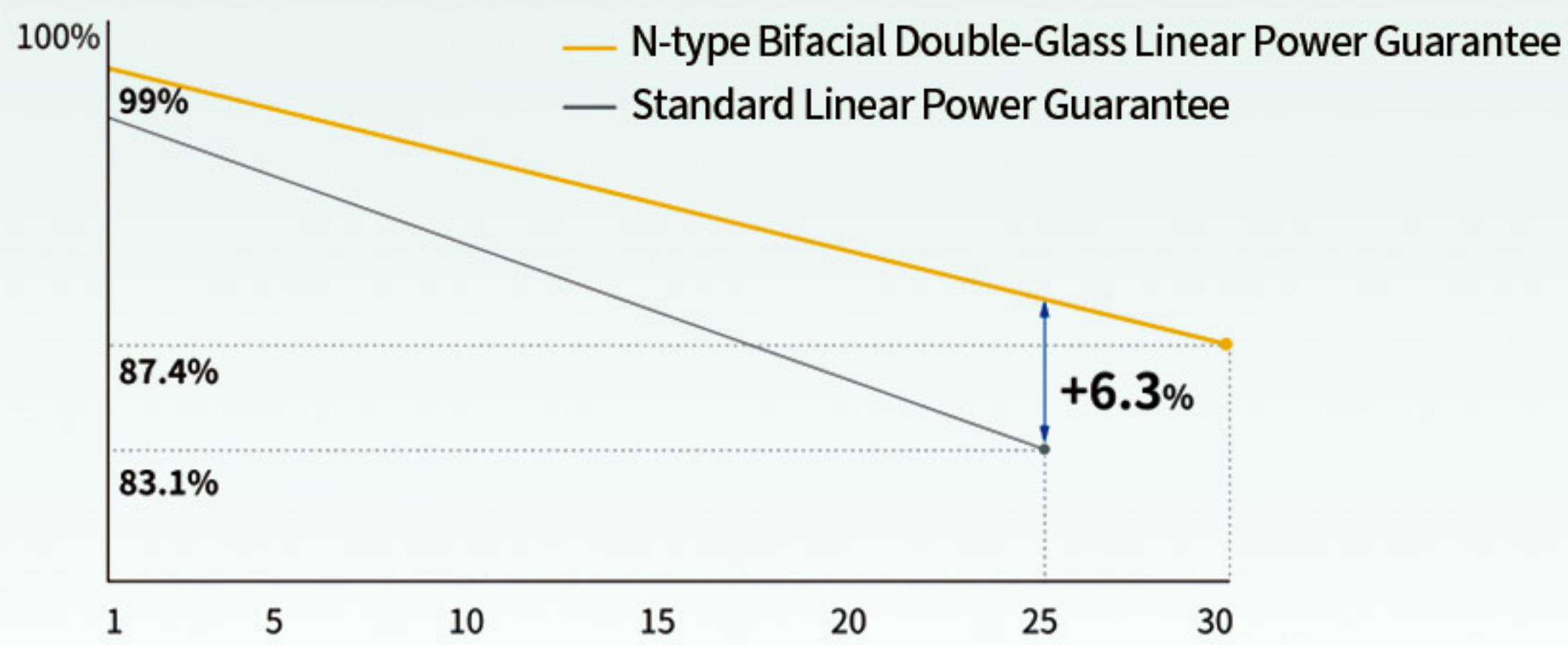
Reduced
Light-Induced
Degradation



Superior
Low-Light
Performance



Outstanding
Temperature
Coefficient
Characteristic



12 12-Year Product
Material and
Manufacturing
Process Warranty

30 30-Year Linear
Power Output
Warranty | First Year: 1%
Subsequent Years: 0.4%

Comprehensive Product and System Certification

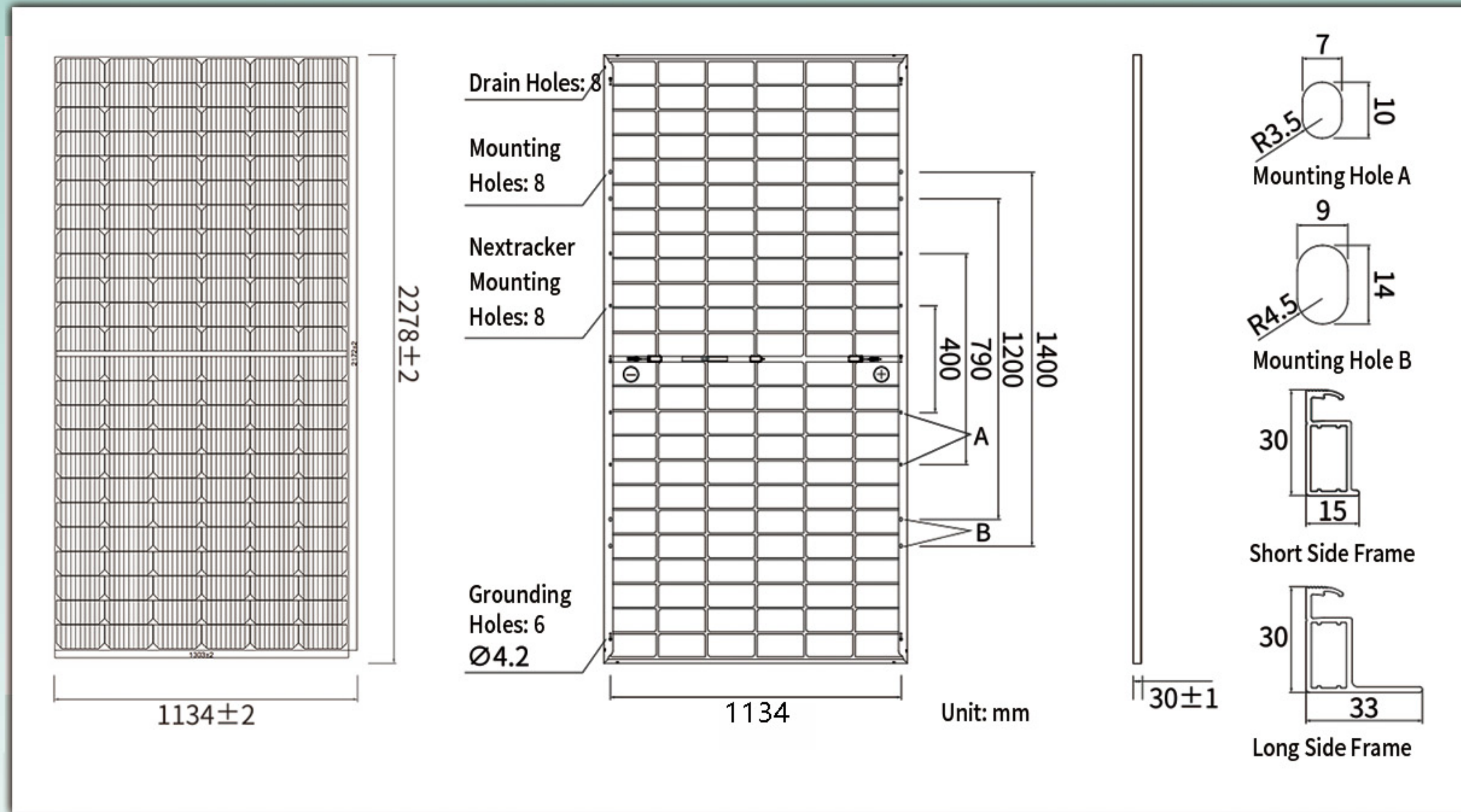
- IEC 61215, IEC 61730
- ISO9001:2015 Quality Management System
- ISO14001:2015 Environmental Management System
- ISO45001:2018 Occupational Health and Safety Management System
- IEC62941:2019 Terrestrial PV Module - PV Module Manufacturing Quantity System



Note: Warranty insurance is optional. Please contact our local sales staff for more information.



YSM-72HG N-type Bifacial Double-Glass PV Module



Mechanical Parameters

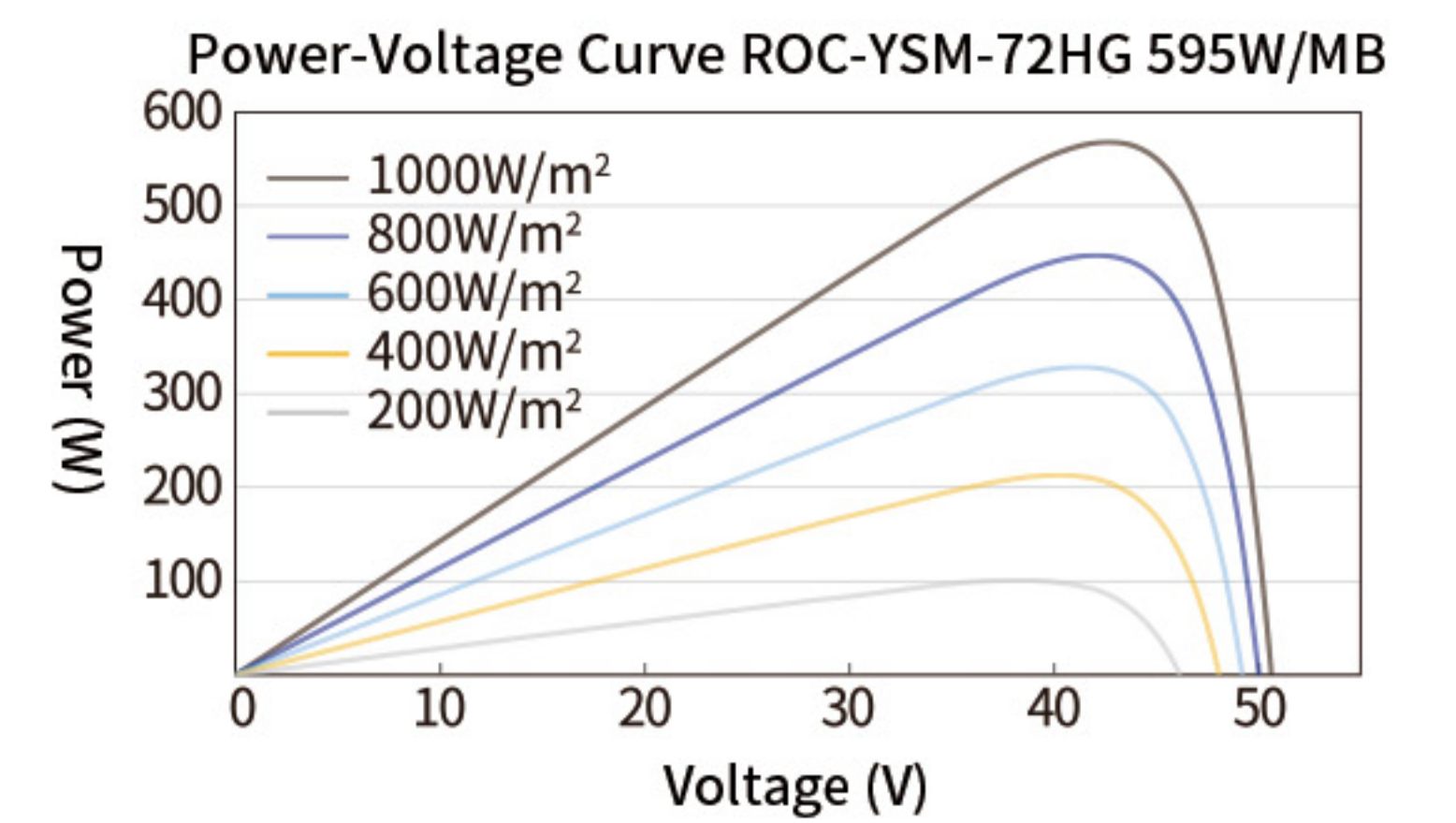
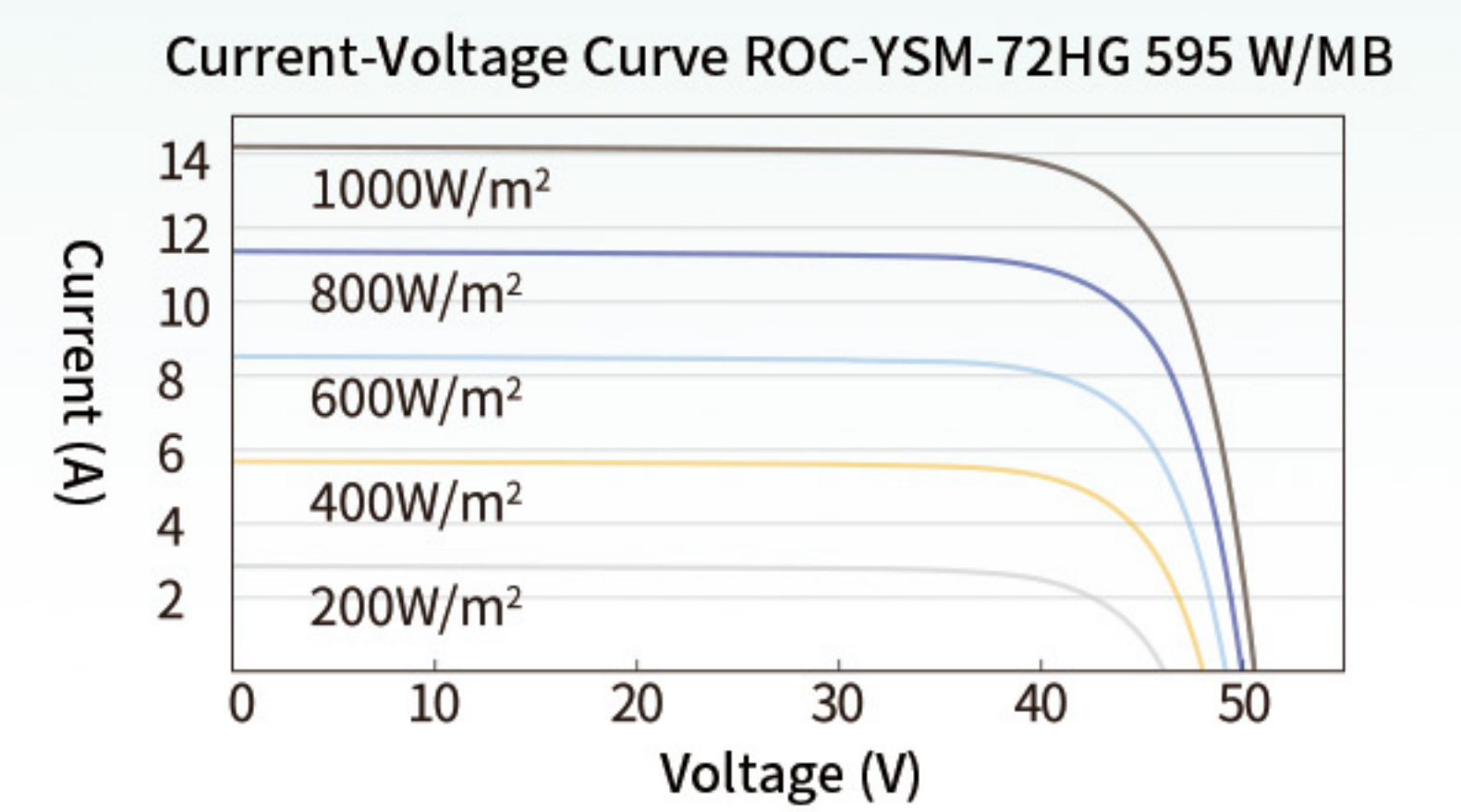
Cell	Monocrystalline N-Type
Weight	31.8kg
Dimensions	2278±2mmx1134±2mm×30±1mm
Cable Cross-Sectional Area	4mm ² (IEC), 12 AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, featuring 3 diodes
Connector	QC4.10-351/MC4-EVO2A
Cable Length (Including Connectors)	300mm(+)/400mm(-)
Front Glass/Back Glass	2.0 mm/2.0 mm
Packaging Information	36 modules per pallet, 720 modules per 40HQ container

Electrical Performance Parameters (STC)

Model	ROC-YSM-54HG 570/MB	ROC-YSM-54HG 575/MB	ROC-YSM-54HG 580/MB	ROC-YSM-54HG 585/MB	ROC-YSM-54HG 590/MB	ROC-YSM-54HG 595/MB
Maximum Power (Pmax) [W]	570	575	580	585	590	595
Open Circuit Voltage (Voc) [V]	51.52	51.73	51.95	52.16	52.37	52.58
Operating Voltage at Maximum Power Point (Vmp) [V]	43.62	43.82	44.02	44.22	44.43	44.64
Short Circuit Current (Isc) [A]	13.74	13.79	13.84	13.89	13.94	13.99
Operating Current at Maximum Power Point (Imp) [A]	13.07	13.12	13.17	13.23	13.28	13.33
Module Efficiency [%]	22.1	22.3	22.5	22.6	22.8	23
Power Tolerance	0~+3%					
Short Circuit Current Temperature Coefficient (αIsc)	+0.045%/°C					
Open Circuit Voltage Temperature Coefficient (βVoc)	-0.250%/°C					
Maximum Power Temperature Coefficient (γPmp)	-0.2909%/°C					
Standard Test Conditions (STC)	Irradiance: 1000 W/m ² ; Cell Temperature: 25°C; Spectrum: AM 1.5G					

Note: During production, relevant parameters may vary slightly within specified ranges.

Characteristic Curve



Electrical Performance Parameters under 10% Light Irradiation Intensity Ratio

Model	ROC-YSM-54HG 570/MB	ROC-YSM-54HG 575/MB	ROC-YSM-54HG 580/MB	ROC-YSM-54HG 585/MB	ROC-YSM-54HG 590/MB	ROC-YSM-54HG 595/MB
Maximum Power (Pmax) [W]	616	621	626	632	637	643
Open Circuit Voltage (Voc) [V]	51.52	51.73	51.95	52.16	52.37	52.58
Operating Voltage at Maximum Power Point (Vmp) [V]	43.62	43.82	44.02	44.22	44.43	44.64
Short Circuit Current (Isc) [A]	14.84	14.89	14.95	15	15.06	15.11
Operating Current at Maximum Power Point (Imp) [A]	14.11	14.17	14.23	14.29	14.34	14.4
Irradiation Intensity Ratio (Back/Front)	10%					

Application Conditions

Maximum System Voltage	1500VDC
Operating Temperature	-40°C ~ +85°C
Maximum Fuse Rated Current	30A
Maximum Static Load, Front	5400Pa (112 lb/ft ²)
Maximum Static Load, Rear Side	2400Pa (50 lb/ft ²)
Cell Rated Operating Temperature	45±2°C
Back Face Efficiency **	80%±10%
Security Level	Class
Fire Performance	UL Type 29/Class C

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