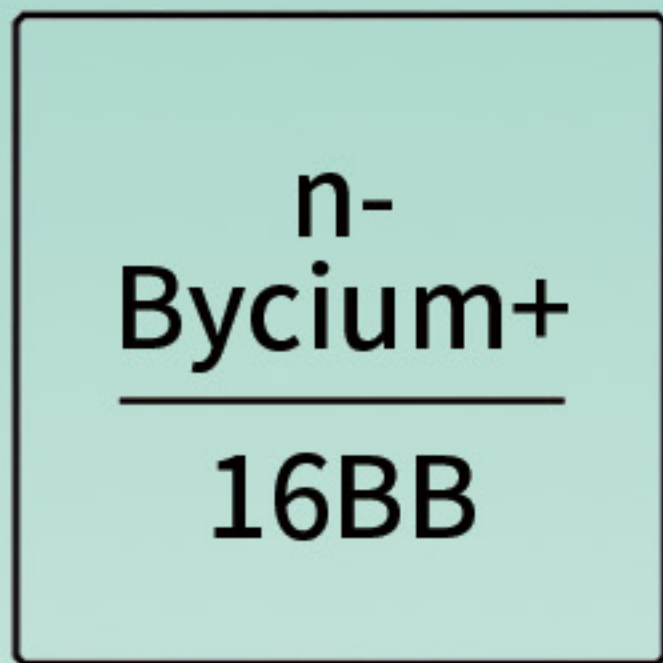


ROC N-type Series Modules **615-640W**

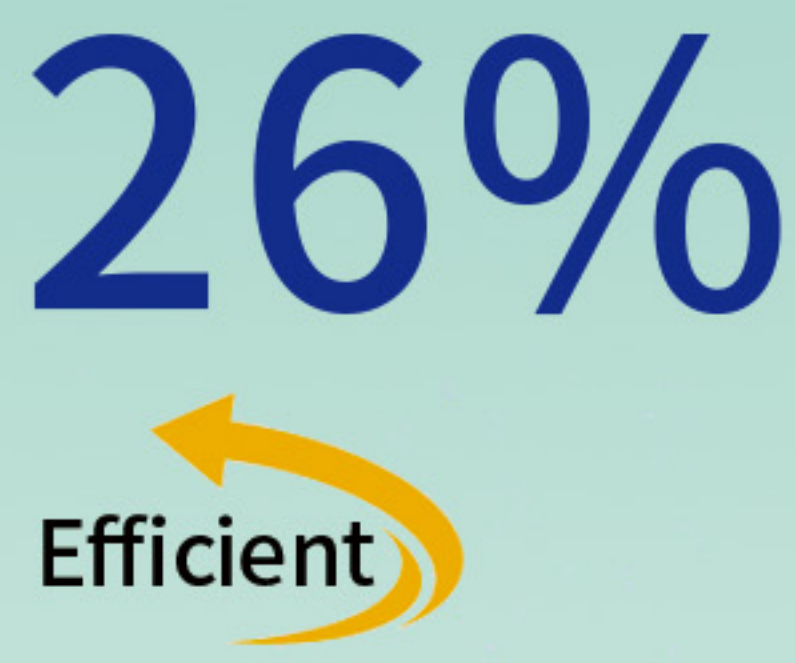
YSG-R72HG N-type Bifacial Double-Glass

PV Module

Better Cells



Multi-Busbar
Half-Cut Technology



High Cell Conversion
Efficiency



More Reliable Modules



Superior
Power
Generation



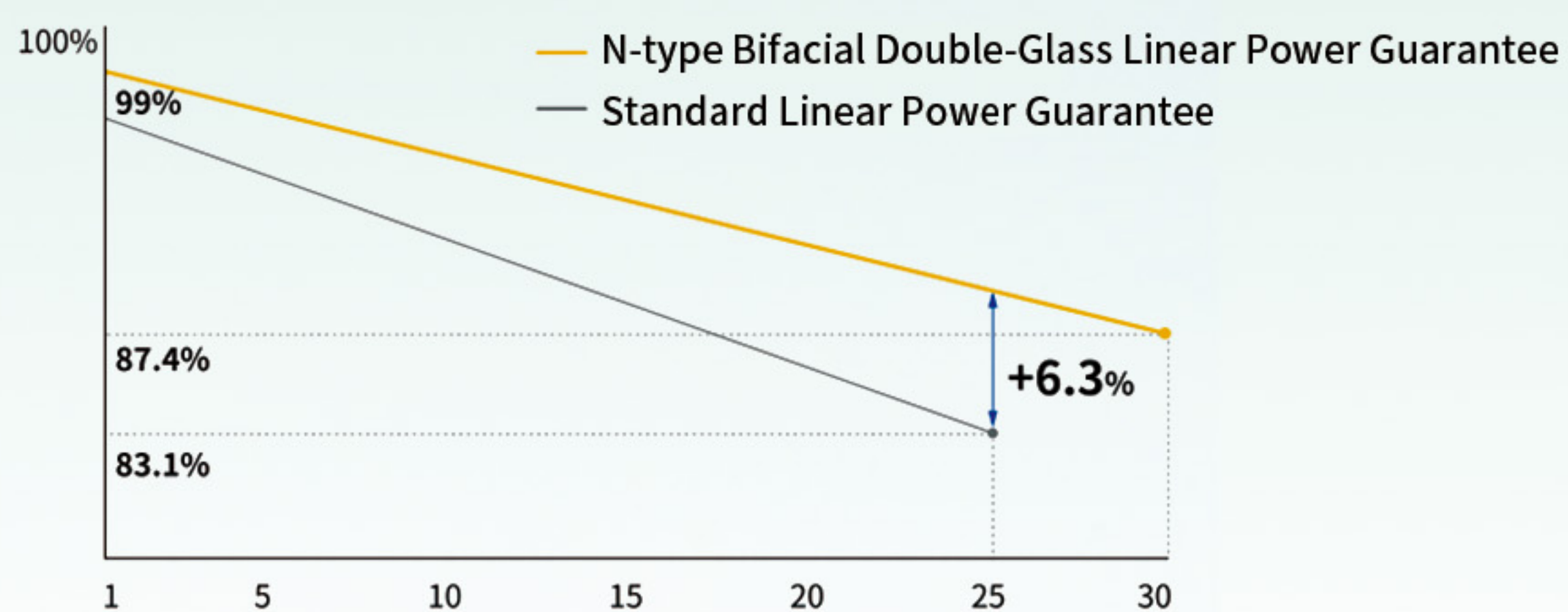
Reduced
Light-Induced
Degradation



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

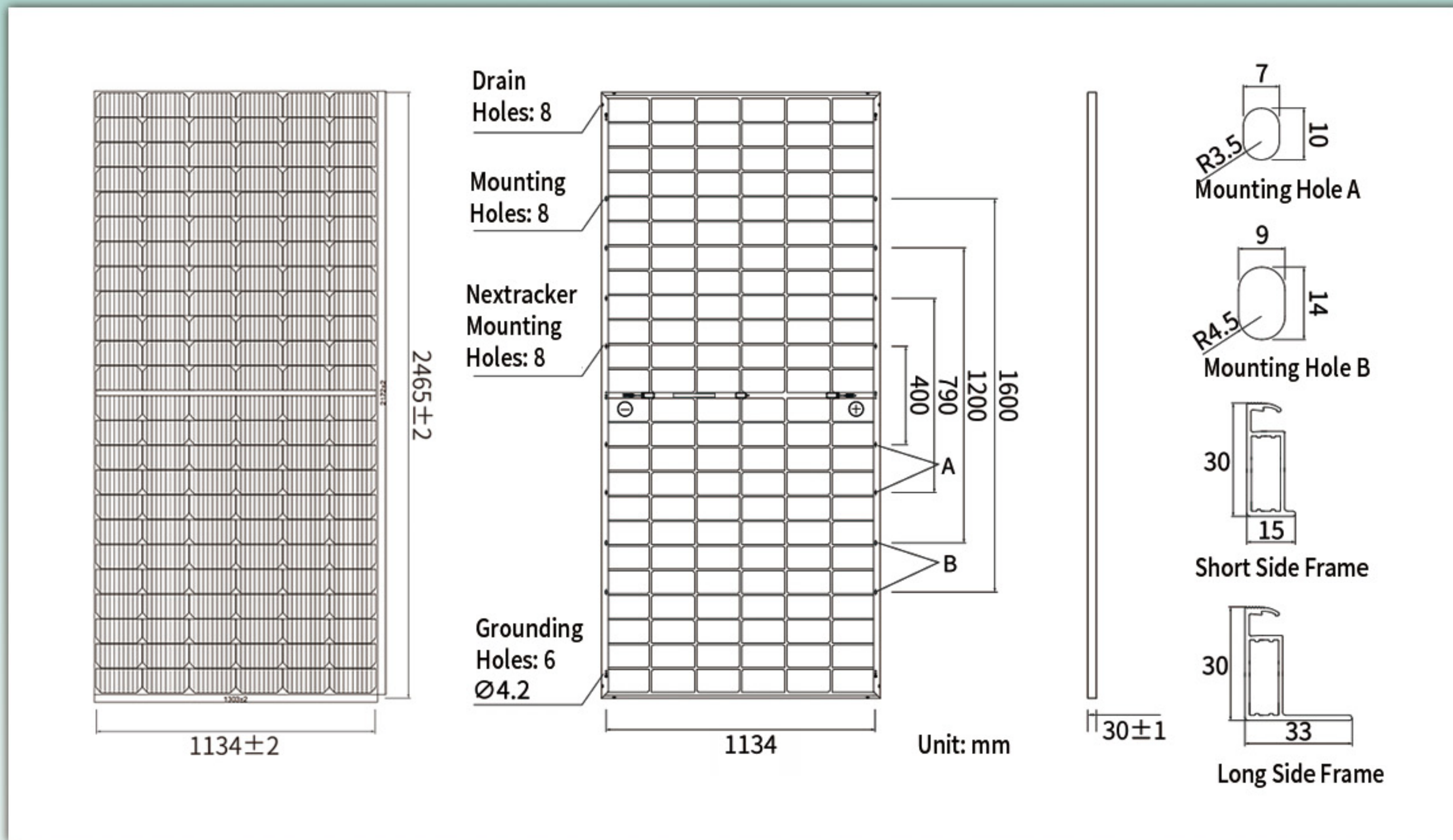
- IEC 61215, IEC 61730
- ISO9001:2015 Quality Management System
- ISO14001:2015 Environmental Management System
- ISO45001:2018 Occupational Health and Safety Management System
- IEC62941:2019 Terrestrial PV Module - PV Module Manufacturing Quantity System



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



YSG-R72HG N-type Bifacial Double-Glass PV Module



Mechanical Parameters

Cell	Monocrystalline N-Type
Weight	34.6kg
Dimensions	2465±2mm×1134±2mm×30±1mm
Cable Cross-Sectional Area	4mm ² (IEC),12AWG(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, 576 modules per 40HQ container

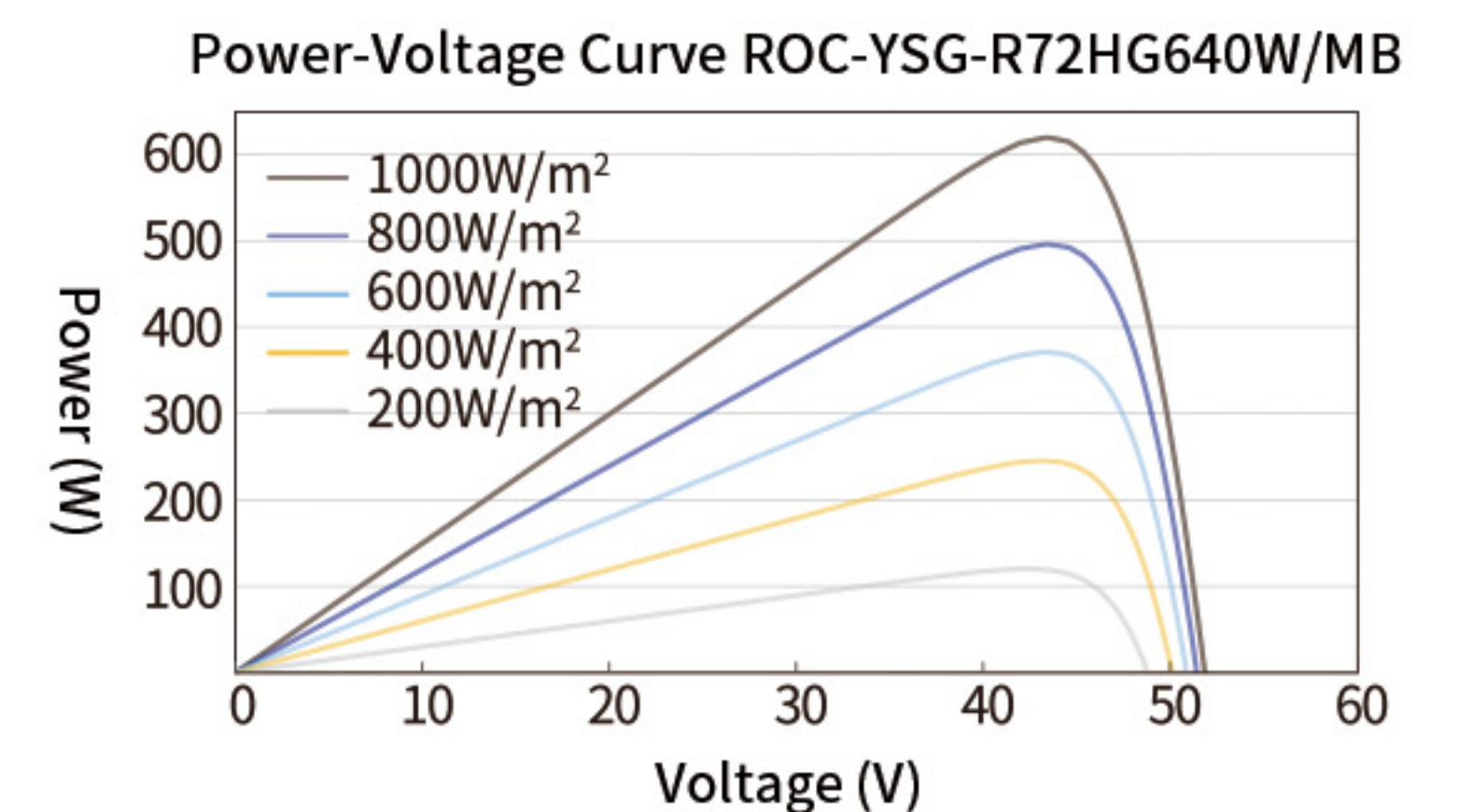
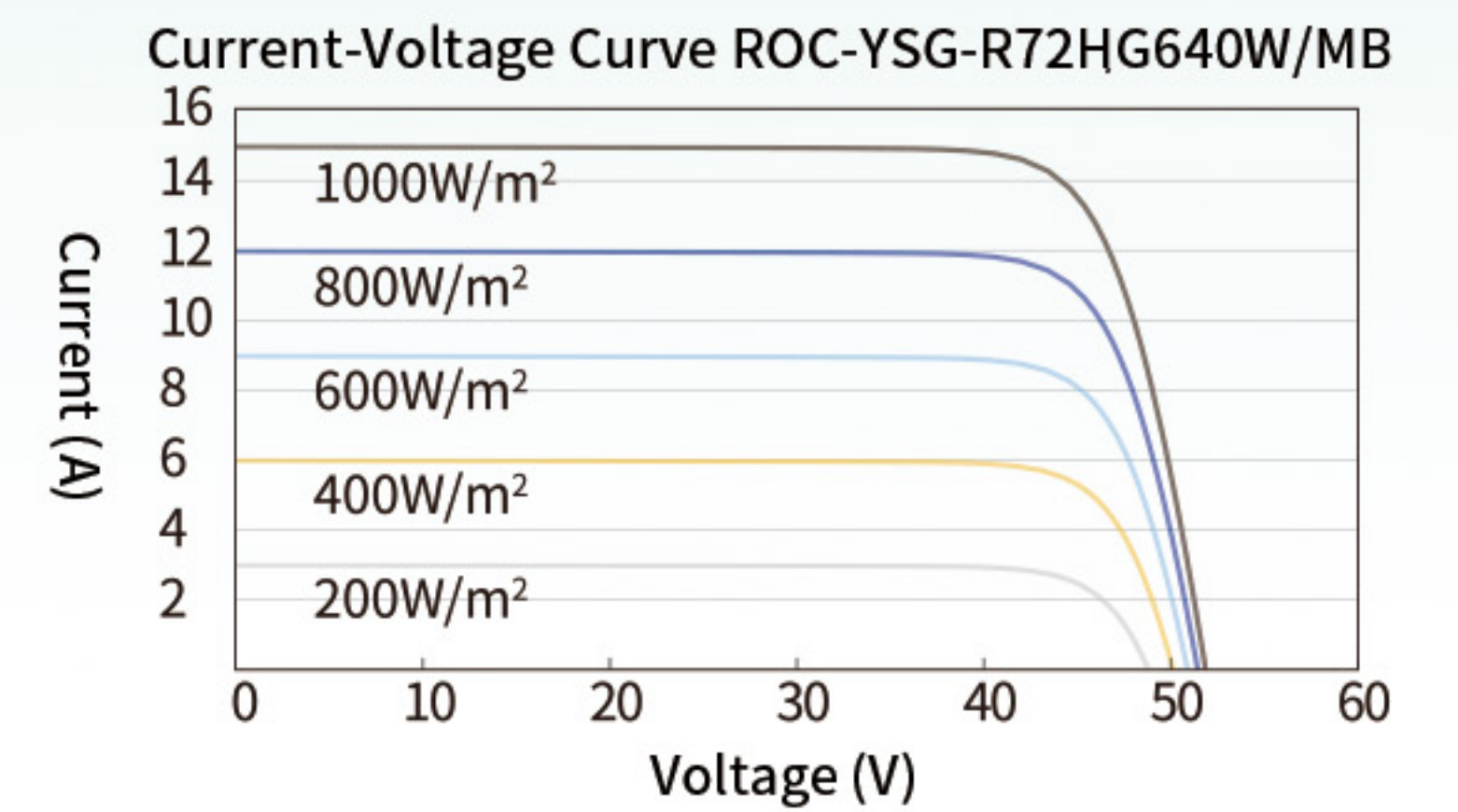
Note: Frame color and cable length can be customized upon request.

Electrical Performance Parameters (STC)

Model	ROC-YSGR-72HG 615/MB	ROC-YSGR-72HG 620/MB	ROC-YSGR-72HG 625/MB	ROC-YSGR-72HG 630/MB	ROC-YSGR-72HG 635/MB	ROC-YSGR-72HG 640/MB
Maximum Power (Pmax) [W]	615	620	625	630	635	640
Open Circuit Voltage (Voc) [V]	51.87	52.07	52.27	52.47	52.67	52.87
Operating Voltage at Maximum Power Point (Vmp) [V]	43.31	43.51	43.7	43.9	44.1	44.29
Short Circuit Current (Isc) [A]	15.06	15.11	15.16	15.21	15.26	15.31
Operating Current at Maximum Power Point (Imp) [A]	14.2	14.25	14.3	14.35	14.4	14.45
Module Efficiency [%]	22	22.2	22.4	22.5	22.7	22.9
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-YSGR-72HG 615/MB	ROC-YSGR-72HG 620/MB	ROC-YSGR-72HG 625/MB	ROC-YSGR-72HG 630/MB	ROC-YSGR-72HG 635/MB	ROC-YSGR-72HG 640/MB
Maximum Power (Pmax) [W]	664	670	675	680	686	691
Open Circuit Voltage (Voc) [V]	51.87	52.07	52.27	52.47	52.67	52.87
Operating Voltage at Maximum Power Point (Vmp) [V]	43.31	43.51	43.71	43.9	44.1	44.29
Short Circuit Current (Isc) [A]	16.26	16.32	16.37	16.43	16.48	16.53
Operating Current at Maximum Power Point (Imp) [A]	15.34	15.39	15.44	15.5	15.55	15.61
Irradiation Intensity Ratio (Back/Front)	10%					

Application Conditions

Maximum System Voltage	1500V DC
Operating Temperature	-40°C ~ +85°C
Maximum Fuse Rated Current	30A
Maximum Static Load, Front Side*	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 II
Fire Performance	UL Type 29/Class C

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