

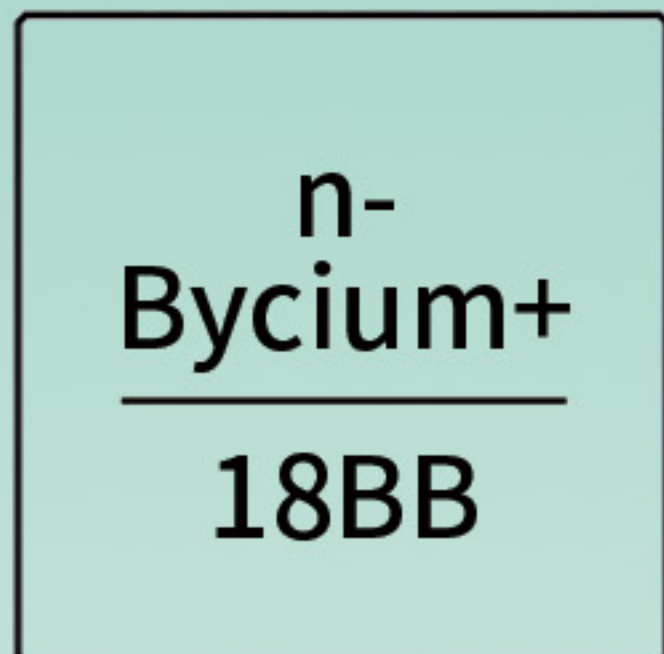


ROC N-type Series Modules **625-650W**

YSG-60HG N-type Bifacial Double-Glass

PV Module

Better Cells



Multi-Busbar
Half-Cut Technology

26%



High Cell Conversion
Efficiency

More Reliable Modules



Superior
Power
Generation



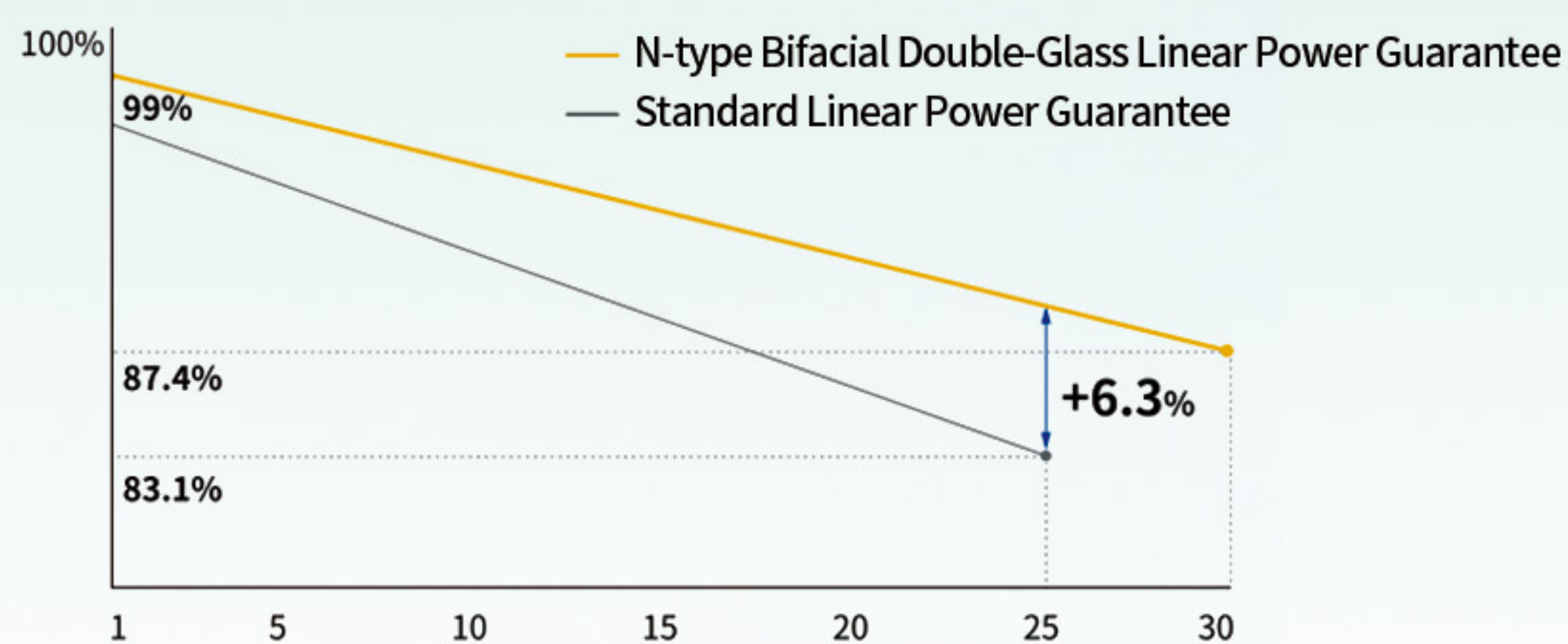
Reduced
Light-Induced
Degradation



Superior
Low-Light
Performance



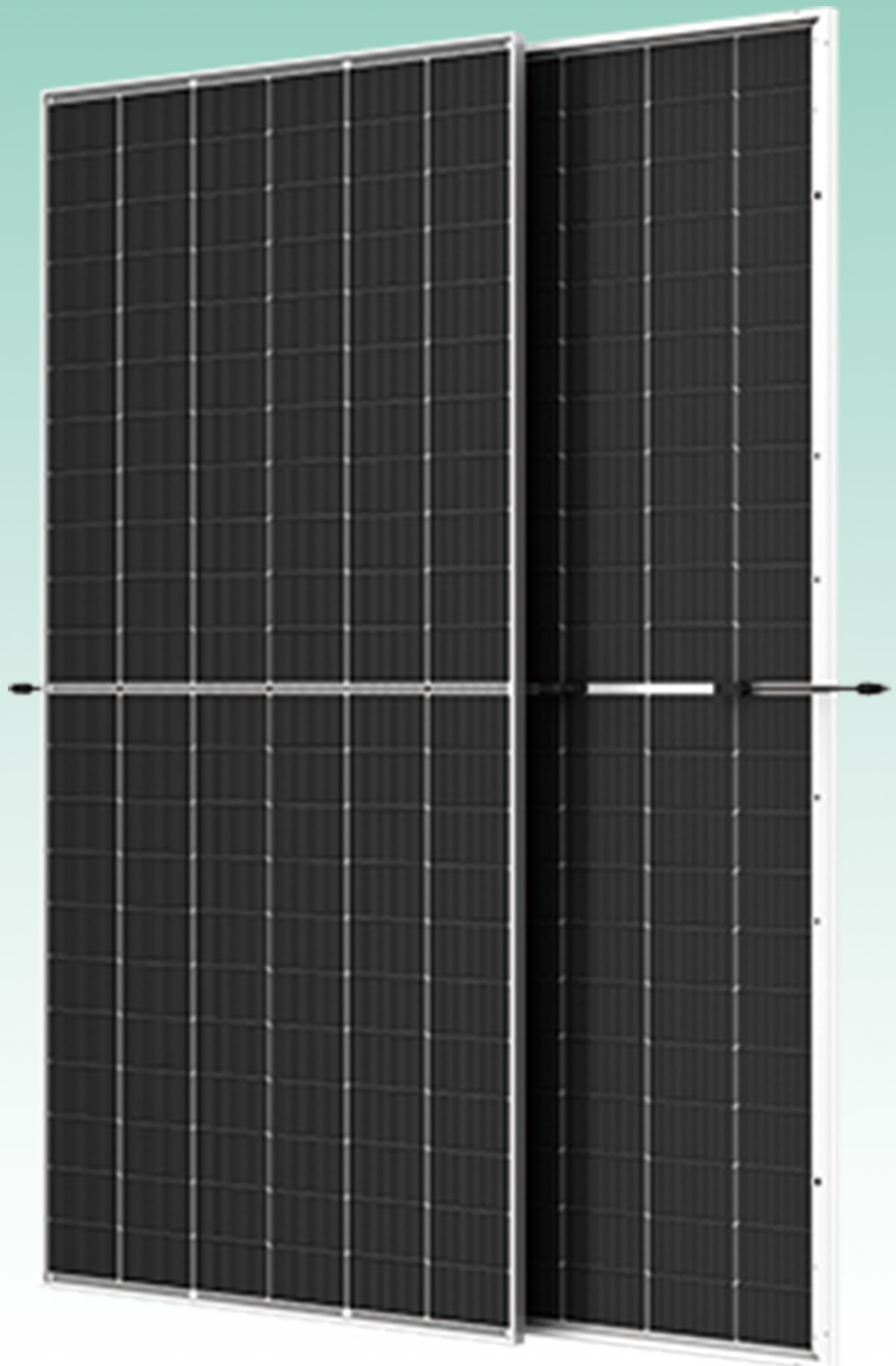
Outstanding
Temperature
Coefficient
Characteristic



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

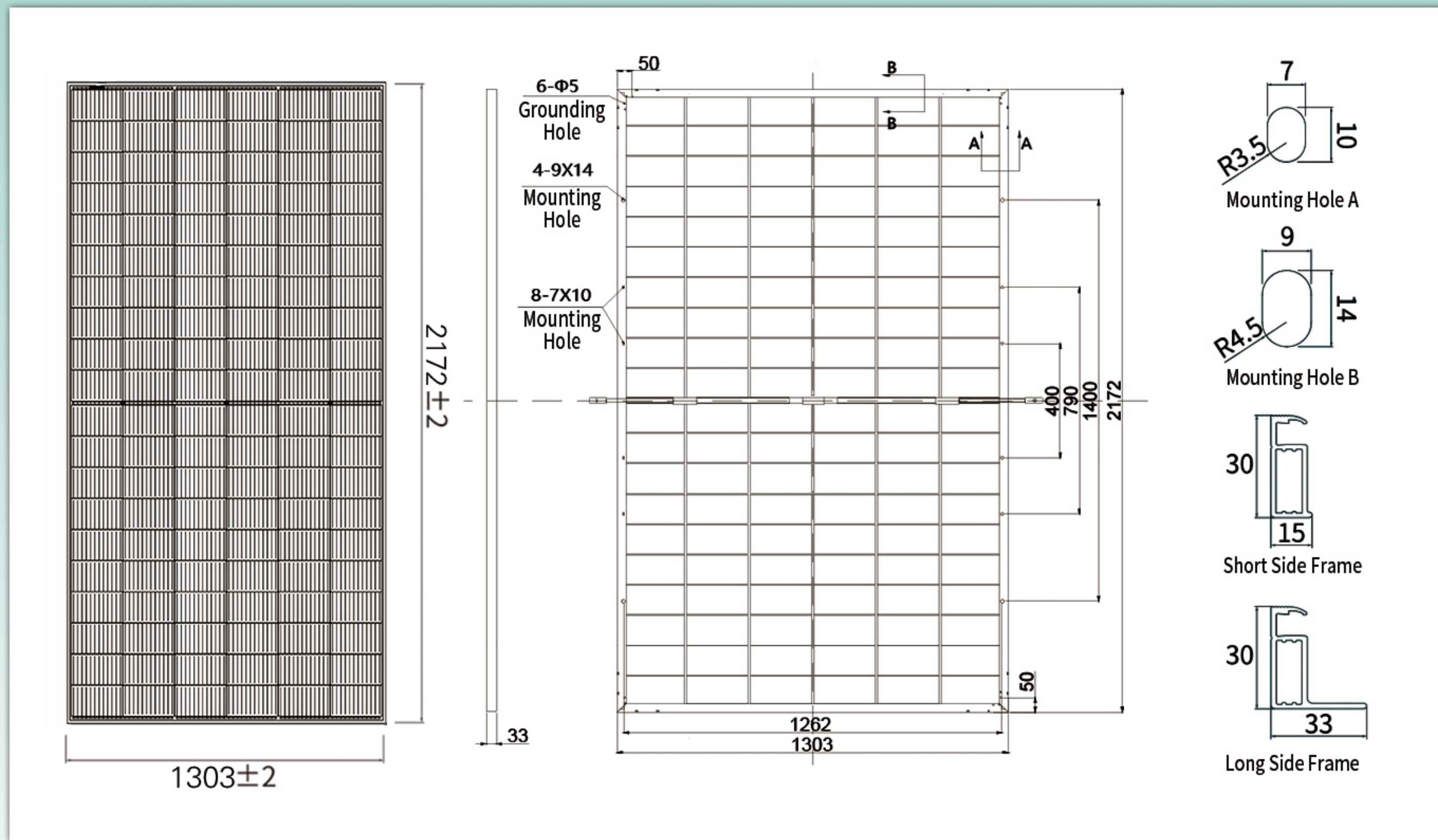
- IEC 61215, IEC 61730
- ISO9001:2015 Quality Management System
- ISO14001:2015 Environmental Management System
- ISO45001:2018 Occupational Health and Safety Management System
- IEC62941:2019 Terrestrial PV Module - PV Module Manufacturing Quantity System



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



YSG-60HG N-type Bifacial Double-Glass PV Module



Mechanical Parameters

Cell	Monocrystalline N-Type
Weight	34.5kg
Dimensions	2172±2mmx1303±2mm×30±1mm
Cable Cross-Sectional Area	4mm ² (IEC),12AWG(UL)
No. of cells	120(6×20)
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

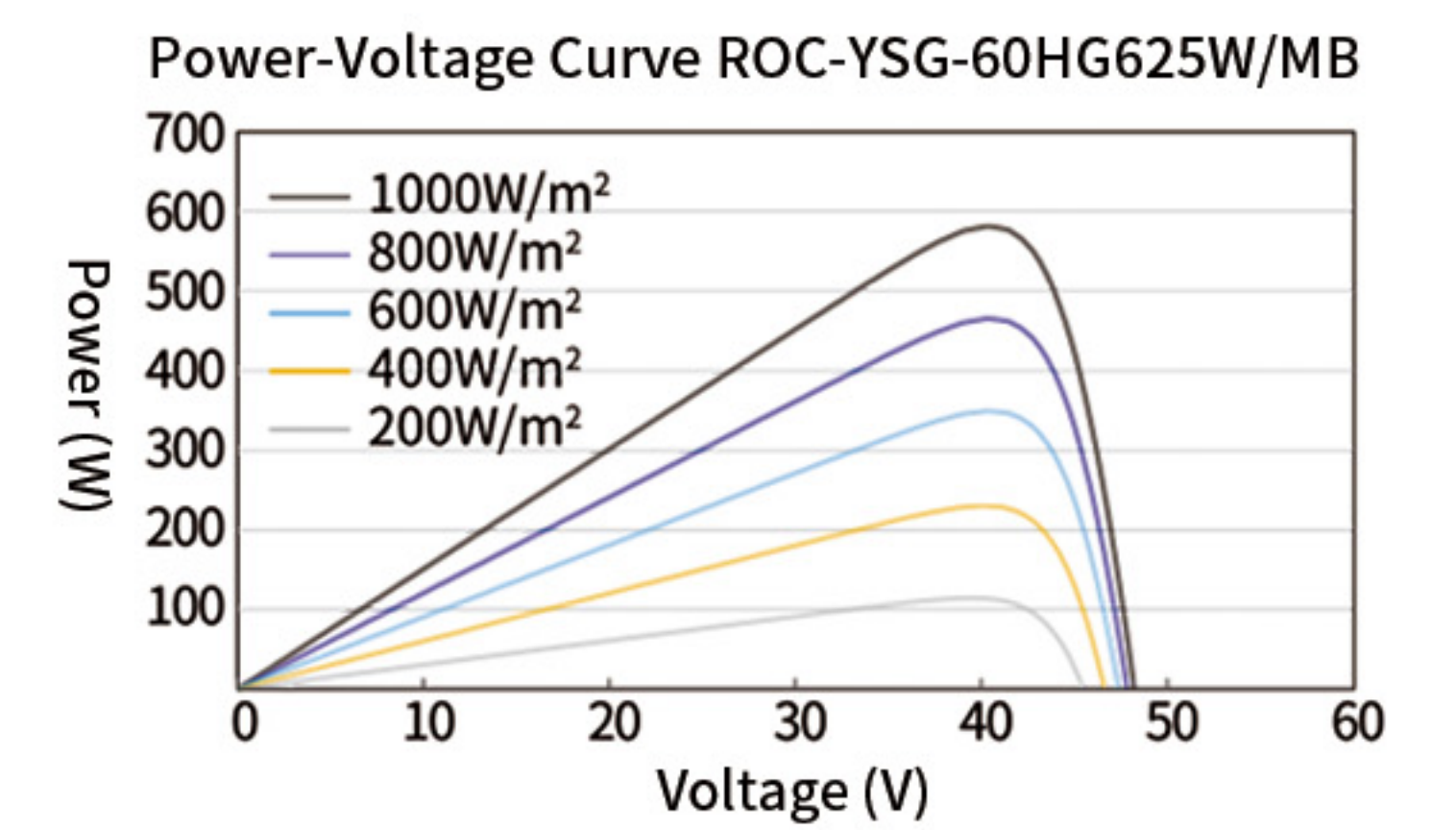
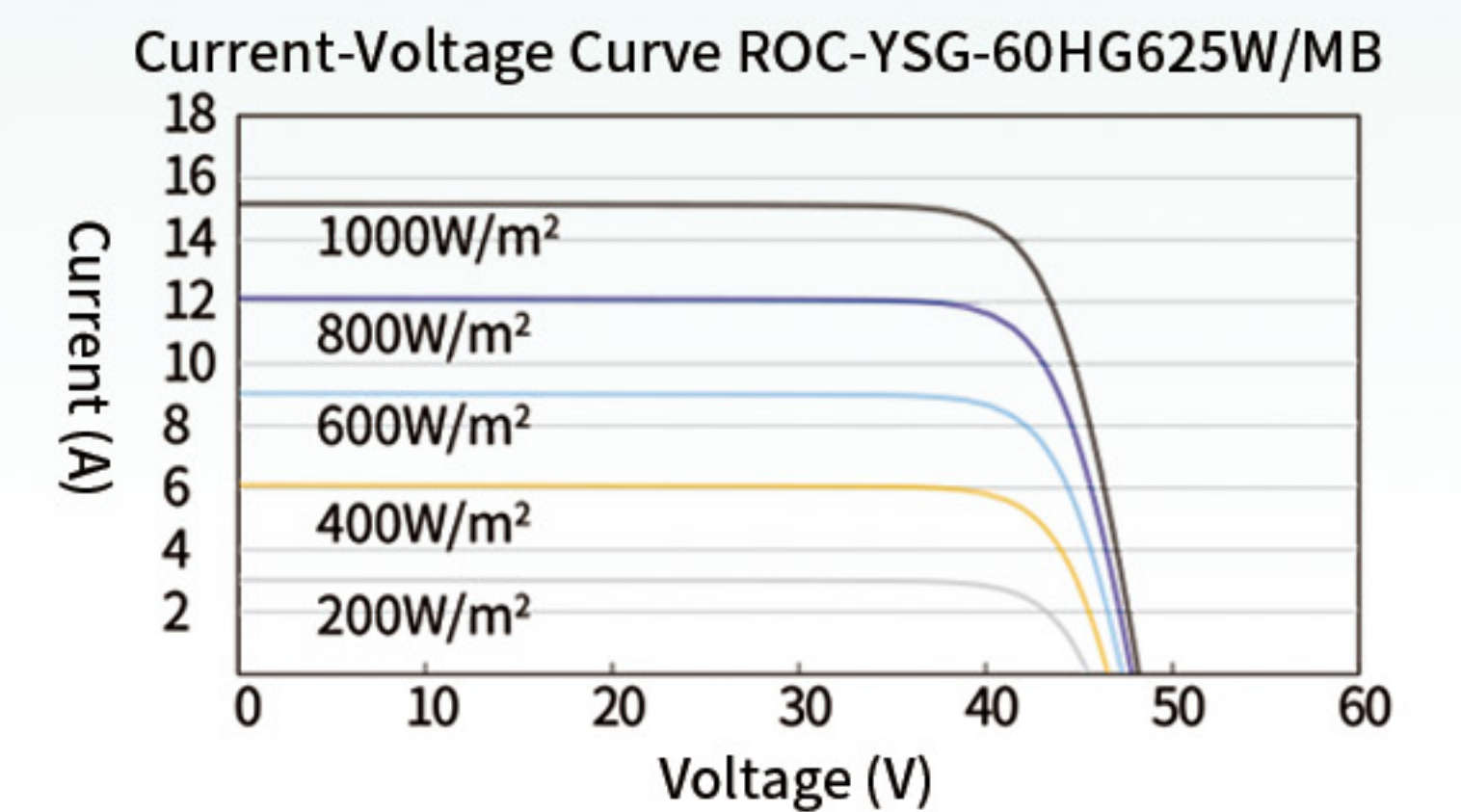
Note: Frame color and cable length can be customized upon request.

Electrical Performance Parameters (STC)

Model	ROC-YSG-60HG 625/MB	ROC-YSG-60HG 630/MB	ROC-YSG-60HG 635/MB	ROC-YSG-60HG 640/MB	ROC-YSG-60HG 645/MB	ROC-YSG-60HG 650/MB
Maximum Power (Pmax) [W]	625	630	635	640	645	650
Open Circuit Voltage (Voc) [V]	43.1	43.3	43.5	43.7	43.9	44.1
Operating Voltage at Maximum Power Point (Vmp) [V]	35.9	36.1	36.3	36.5	36.7	36.9
Short Circuit Current (Isc) [A]	18.36	18.41	18.46	18.51	18.56	18.61
Operating Current at Maximum Power Point (Imp) [A]	17.41	17.46	17.5	17.54	17.58	17.62
Module Efficiency [%]	22.1	22.3	22.4	22.6	22.8	23
Power Tolerance	0+3%					
Short Circuit Current Temperature Coefficient (alsc)	+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-YSG-60HG 625/MB	ROC-YSG-60HG 630/MB	ROC-YSG-60HG 635/MB	ROC-YSG-60HG 640/MB	ROC-YSG-60HG 645/MB	ROC-YSG-60HG 650/MB
Maximum Power (Pmax) [W]	688	693	699	704	710	715
Open Circuit Voltage (Voc) [V]	43.1	43.3	43.5	43.7	43.9	44.1
Operating Voltage at Maximum Power Point (Vmp) [V]	35.9	36.1	36.3	36.5	36.7	36.9
Short Circuit Current (Isc) [A]	20.2	20.25	20.31	20.36	20.42	21.49
Operating Current at Maximum Power Point (Imp) [A]	19.15	19.21	19.25	19.29	19.34	19.38
Module Efficiency [n]	24.3	24.5	24.7	24.9	25.1	25.3
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 II
Fire Performance	UL Type 29/Class C

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