



Silver Series

EGYO Pro-54HD

Product Range

425-445W

N-Type Bifacial
Double Glass

445W

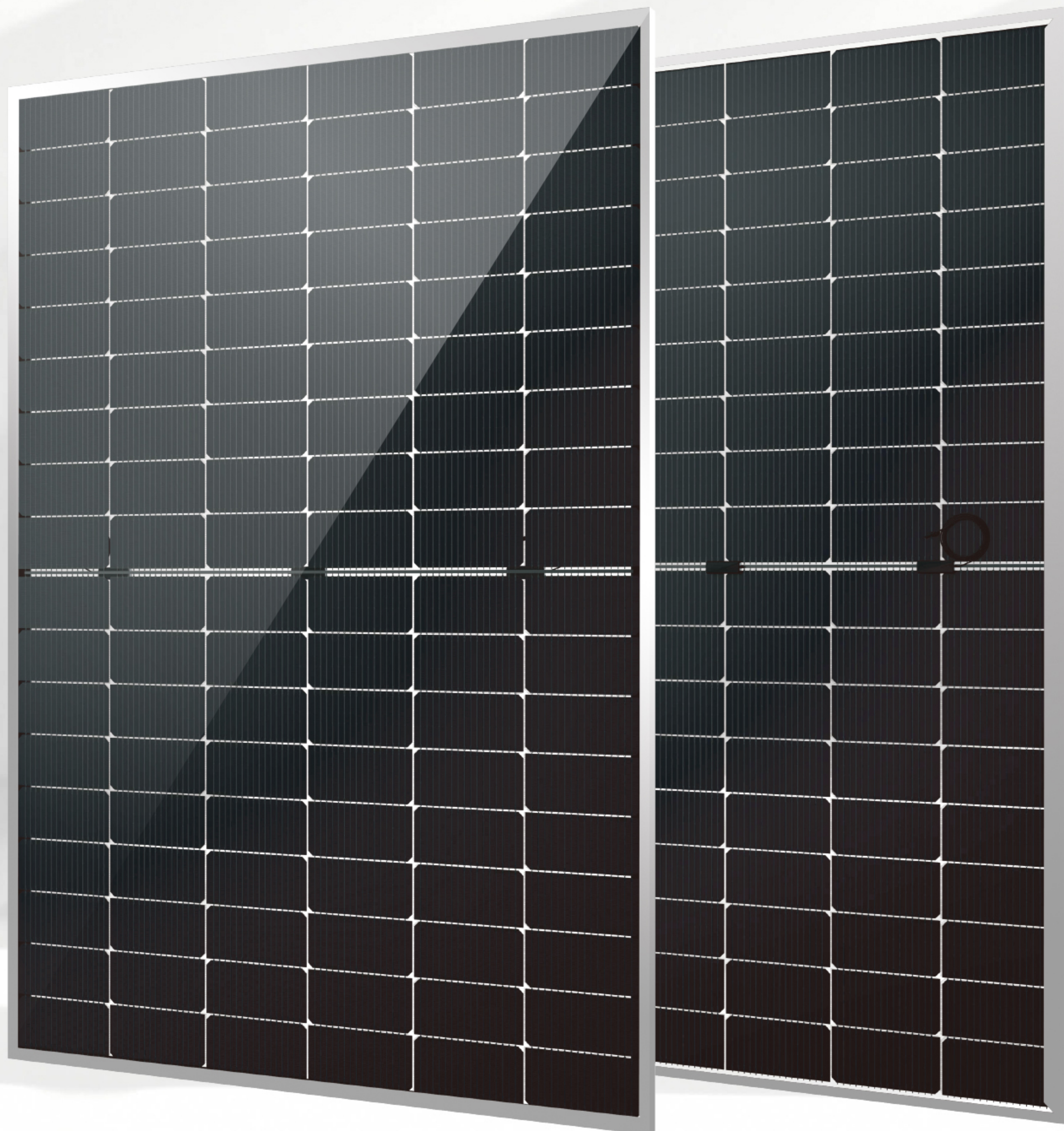
Maximum Power Output

0~+5W

Positive Power Tolerance

22.79%

Maximum Efficiency



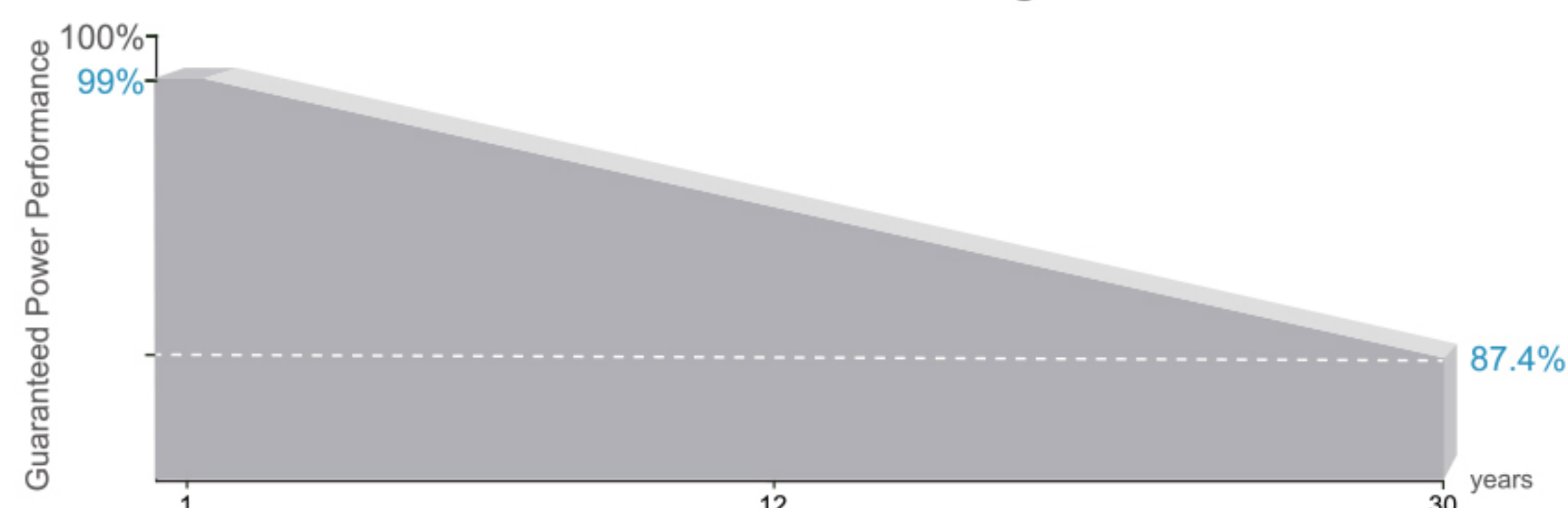
Linear Performance Warranty

15 Year Product Warranty

30 Year Linear Power Warranty

<1% First year Power Degradation

<0.4% Year 2-30 Power Degradation



MBB Half-Cut Solar Cell

182x91mm, 108 cells.



Higher Module Conversion Efficiency

Higher module output up to 445W with module efficiency up to 22.79%.



Low-Light Performance

Advanced glass and surface texturing allow for excellent performance in low-light environments.



Certifications

Quality Management System and Product Certification.

IEC61215(2021), IEC61730(2023), IEC61701

IEC61215-2 (bifaciality): 2021

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018: Occupational health and safety management systems



Transparent Dual-glass Design

Excellent fire rating, with better temperature coefficient.



Higher Power Output

Module power increases 5-25% generally, bringing significantly lower LCOE and higher IRR.

Double Glass, 182mm , 54-CELL HALF-CUT SERIES

ELECTRICAL PARAMETERS AT STC

Module Type: EGYO Pro-54HD	425M	430M	435M	440M	445M
Maximum Power(Wp)	425W	430W	435W	440W	445W
Open Circuit Voltage(Voc)	38.20V	38.40V	38.60V	38.75V	38.90V
Short Circuit Current(Isc)	13.98A	14.09A	14.18A	14.26A	14.33A
Maximum Power Voltage(Vm)	32.10V	32.27V	32.42V	32.60V	32.80V
Maximum Power Current(I _m)	13.24A	13.33A	13.42A	13.50A	13.57A
Module Efficiency	21.76%	22.02%	22.28%	22.53%	22.79%
Maximum Series Fuse	30A				
Watts Positive Tolerance	0~+5W				
Number Of Diode	3				
Standard Test Conditions	1000W/M ² ,25°C,AM1.5				
Maximum System Voltage	1500V/DC				
Temperature-Coefficient Isc	+0.043%/°C				
Temperature-Coefficient Voc	-0.24%/°C				
Temperature-Coefficient P _{mp}	-0.30%/°C				
Operating Temperature	-40°C...+85°C				
Normal Operating Cell Temperature	45±2°C				
Load Capacity For The Cover Of The Module (Glass)	5400Pa(IEC61215)(snow)				
Load Capacity For The Front & Back Of The Module	2400Pa(IEC61215)(wind)				

ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

Module Type: EGYO Pro-54HD	425M	430M	435M	440M	445M
Maximum Power(Wp)	459W	464W	470W	475W	480W
Open Circuit Voltage(Voc)	38.56V	38.84V	39.15V	39.35V	39.55V
Short Circuit Current(Isc)	14.80A	14.85A	14.91A	14.97A	15.03A
Maximum Power Voltage(Vm)	32.64V	32.88V	33.15V	33.35V	33.55V
Maximum Power Current(I _m)	14.06A	14.12A	14.18A	14.24A	14.30A
Irradiation Ratio (Rear/Front)	10%				

*Bifaciality=P_{max,Rear}/Rated P_{max,Front}

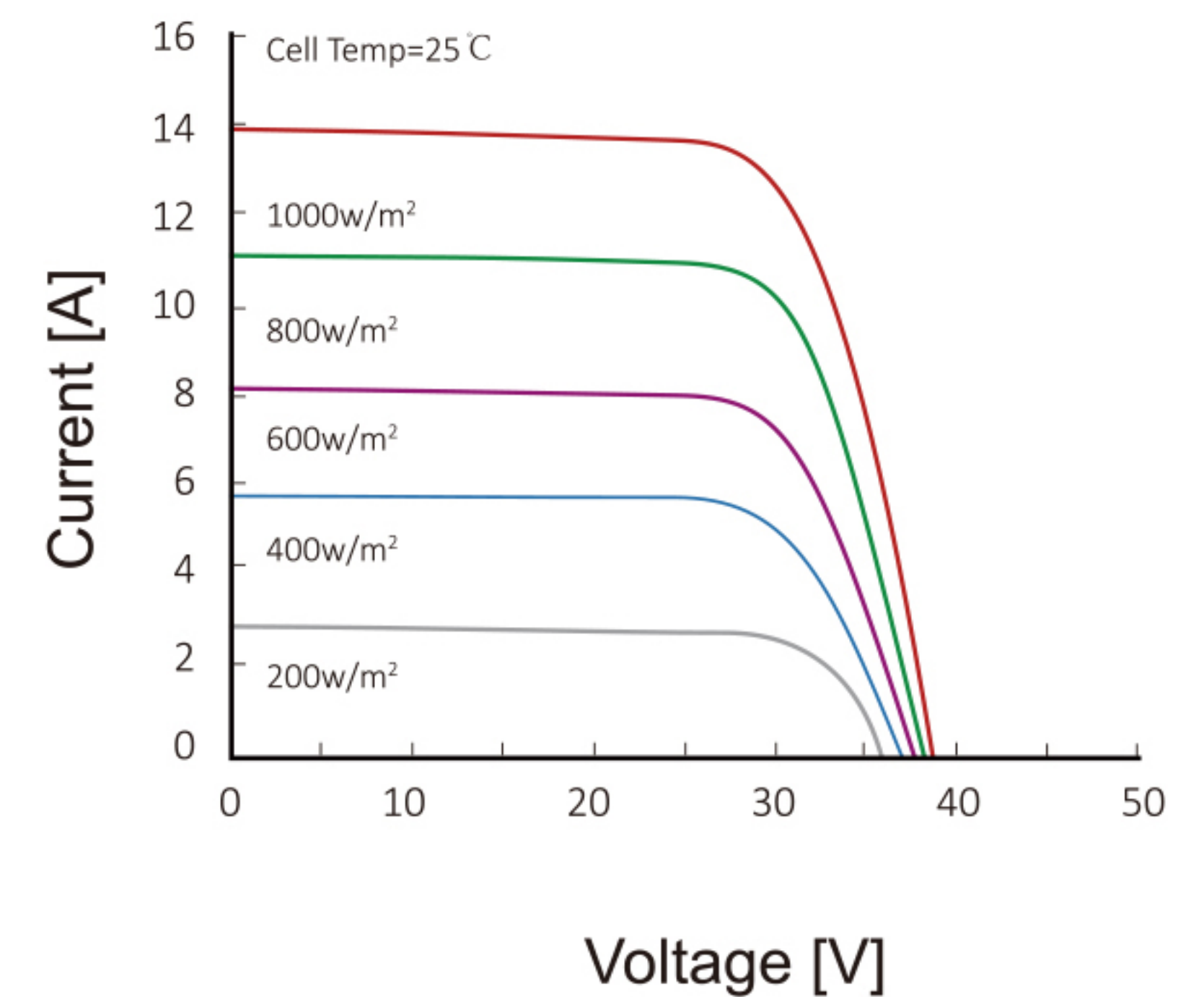
MECHANICAL CHARACTERISTICS

Front/Back Cover (Material / Thickness)	low-iron tempered glass 2.0 / 2.0 mm
Cell (Quantity / Material / Dimensions)	108(6x9x2) / monocrystalline silicon,bifacial
Frame (Material / Color)	aluminum hollow-chamber frame on each side anodized aluminum alloy / silver
Junction Box (Protection Degree)	≥IP68
Cables & Plug Connectors	4mm ² , 300mm in length,length can be customized
Module Dimensions (L / W / H)	1722x1134x30mm
Module Weight	22 kg
Application Class	Class A
Electrical Protection Class	Class II
Fire Safety Class	Class A

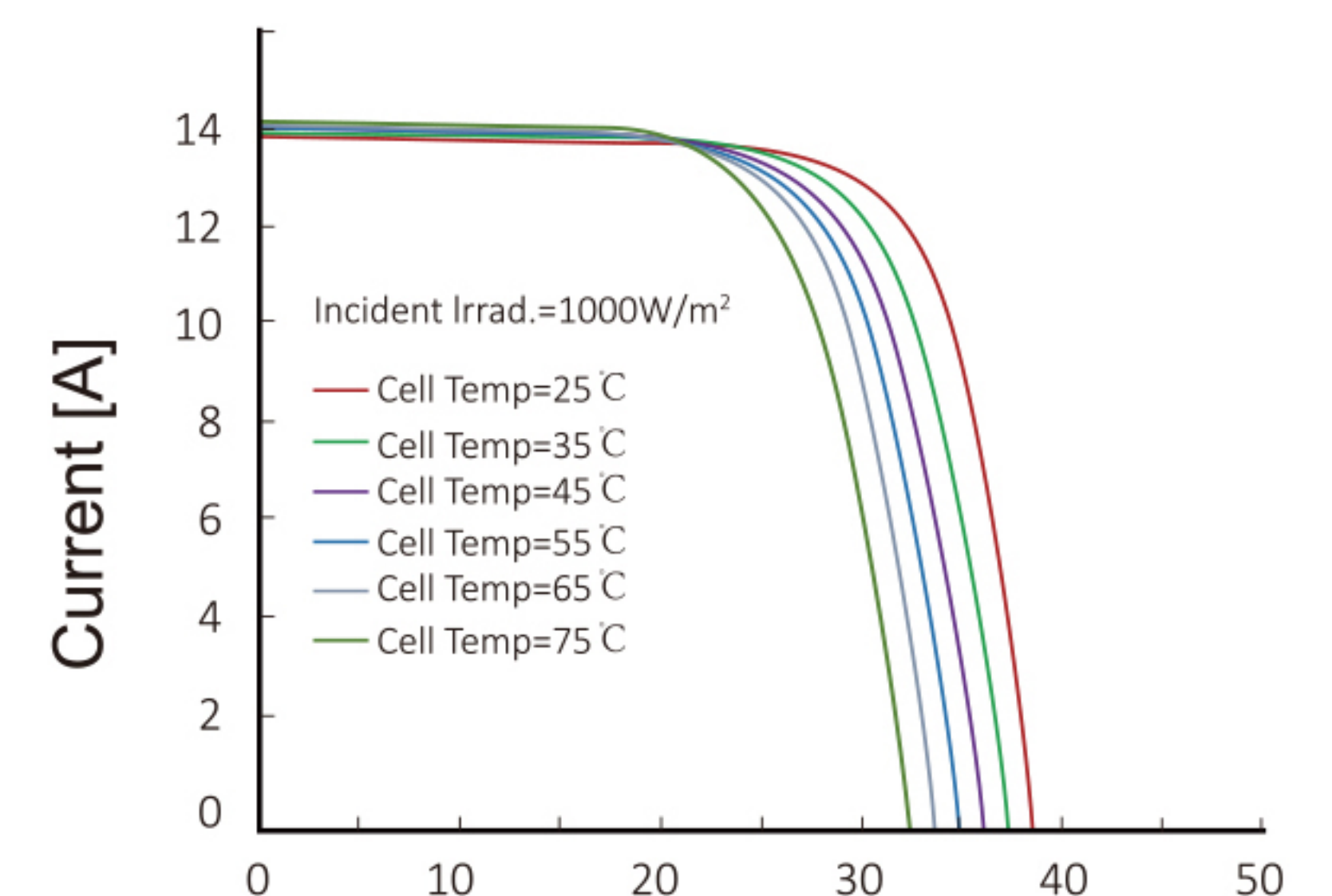
PACKING

Container Size	Units/Pallet (PCS)	Weight/Pallet (KG)	Pallet Measurement (mm)	Units/Container (PCS)
40HQ	36	825	1750x1120x1260	936

CURRENT-VOLTAGE CURVES:



Module characteristics at constant module temperatures of 25°C and variable levels of irradiance



Module characteristics at variable module temperatures and constant module irradiance of 1.000 W/m²

MODULE DIAGRAM:

