



390~410 Watt



*BLACK FRAME/BLACK BACK-SHEET PRODUCTS ARE AVAILABLE UPON REQUEST

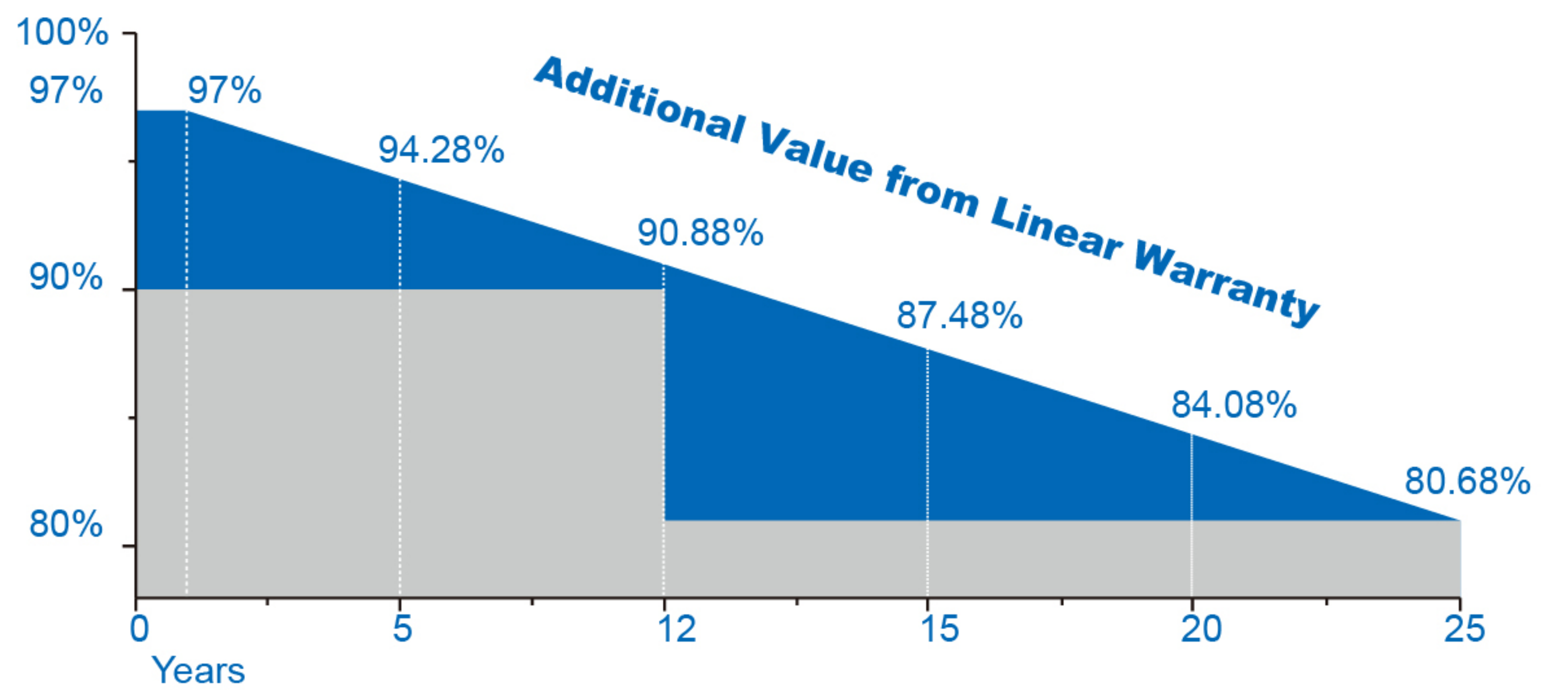
MANAGEMENT SYSTEM

- ISO 9001: Quality management system
- ISO 14001: Standard for environmental management system
- OHSAS 18001: International standard for occupational health and safety assessment system

PRODUCT CERTIFICATES



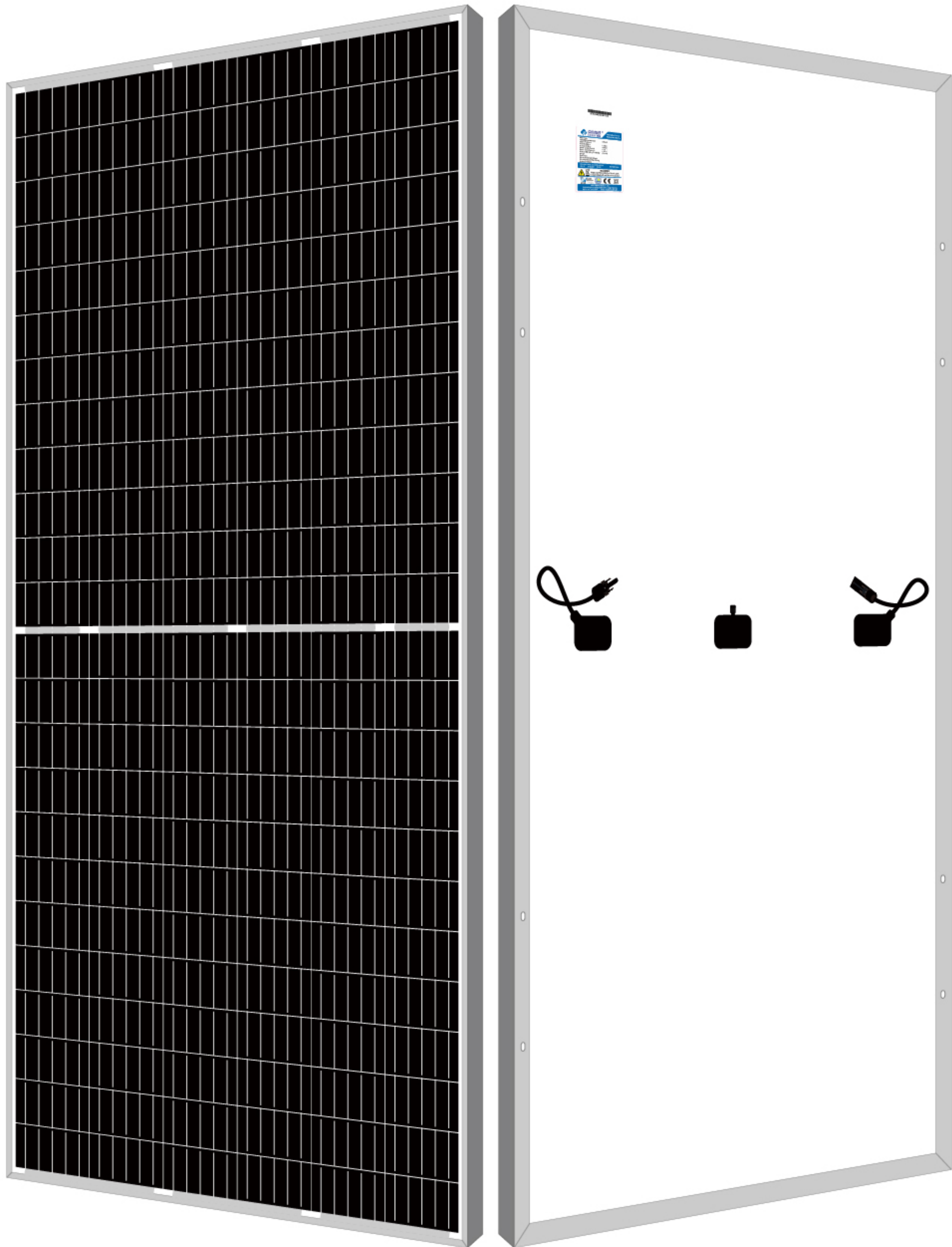
WARRANTY



10 Years
Material & Craft
Quality
assurance

12 Years
90% Output
Power
guarantee

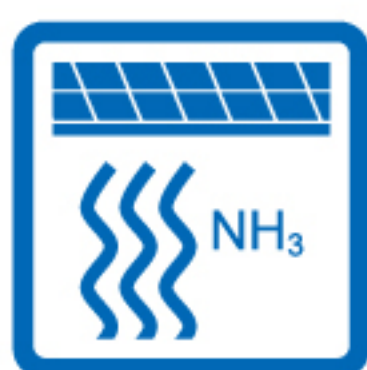
25 Years
80% Output
Power
guarantee



Safety



Safety for salt mist corrosion (IEC61701, tested in TUV)



Safety for ammonia corrosion (IEC62716, tested in TUV)



Safety for fire risk (Class A, tested in TUV)

Key



High stability of the aluminium frame



High quality junction box and connector systems

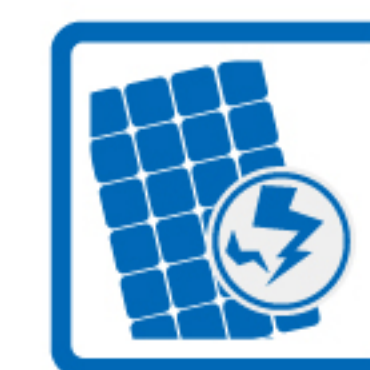


100% inspection, to guarantee the reliability of solar systems

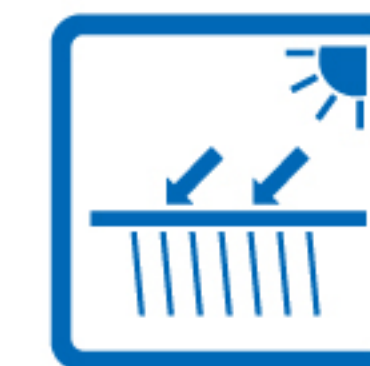
Technology



Using high efficiency mono solar cells



Excellent performance in low-light environments



High transmissivity, low-iron tempered glass.



Electrical Characteristics under STC*

Module Type	FSM390M72HL	FSM395M72HL	FSM400M72HL	FSM405M72HL	FSM410M72HL
Maximum Power-Pmax (Wp)	390	395	400	405	410
Voltage at Maximum Power-Vmp (V)	41.1	41.4	41.7	42.0	42.3
Current at Maximum Power-Imp (A)	9.49	9.55	9.60	9.65	9.69
Open Circuit Voltage-Voc (V)	49.3	49.5	49.8	50.1	50.4
Short Circuit Voltage-Isc (A)	10.12	10.23	10.36	10.48	10.60
Module Efficiency- η_m (%)	19.4	19.6	19.9	20.1	20.4
Power Tolerance(%)	0/+3	0/+3	0/+3	0/+3	0/+3

Mechanical Characteristics

Cell Type	Mono-crystalline 158.75×79.375mm
Number of Cells	144 (72×2)
Dimension	2008×1002×40mm
Weight	22.5kg
Front Glass	Low Iron Tempered Glass
Encapsulant	EVA
Frame	Anodized Aluminum Alloy

Temperature Characteristics

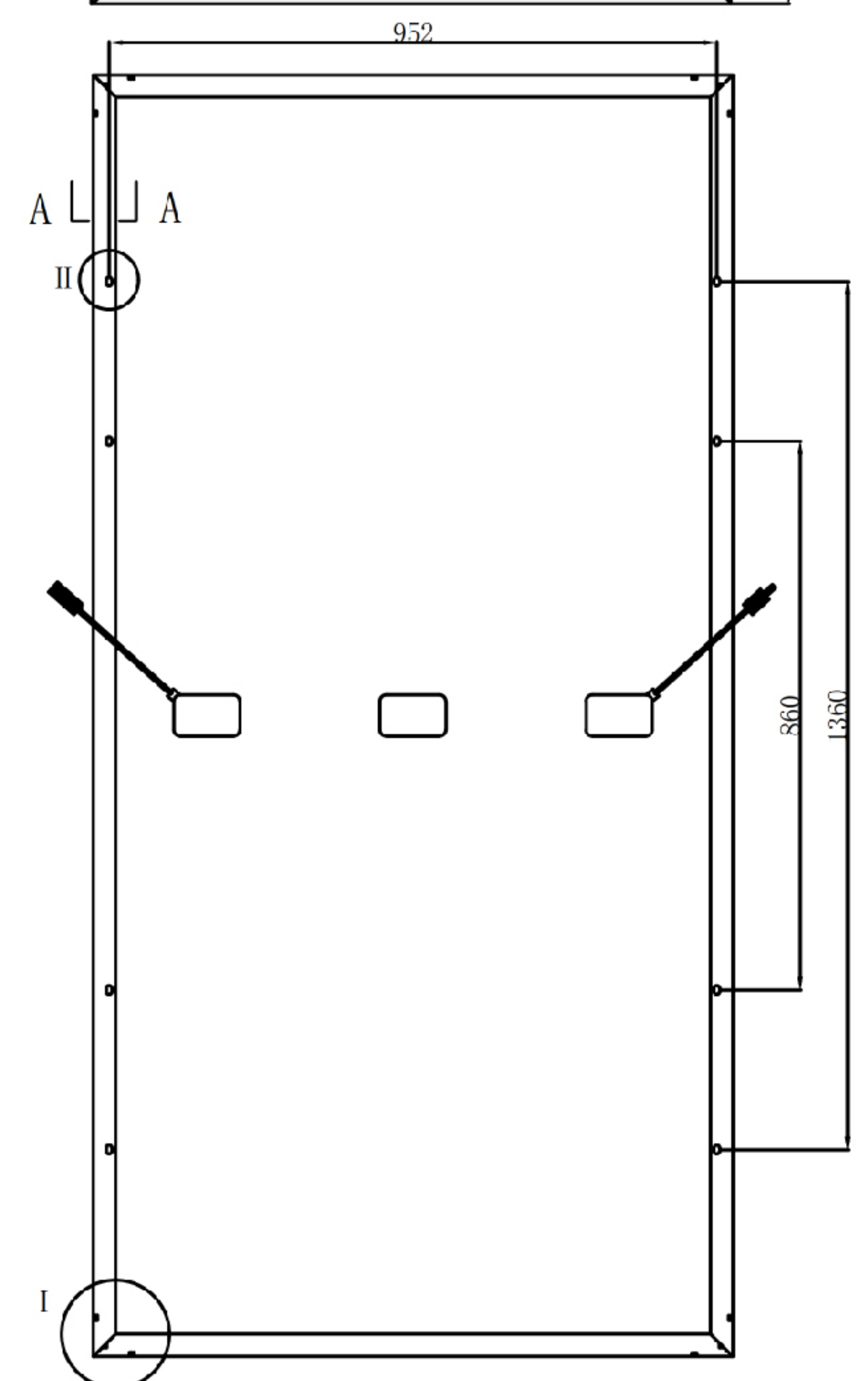
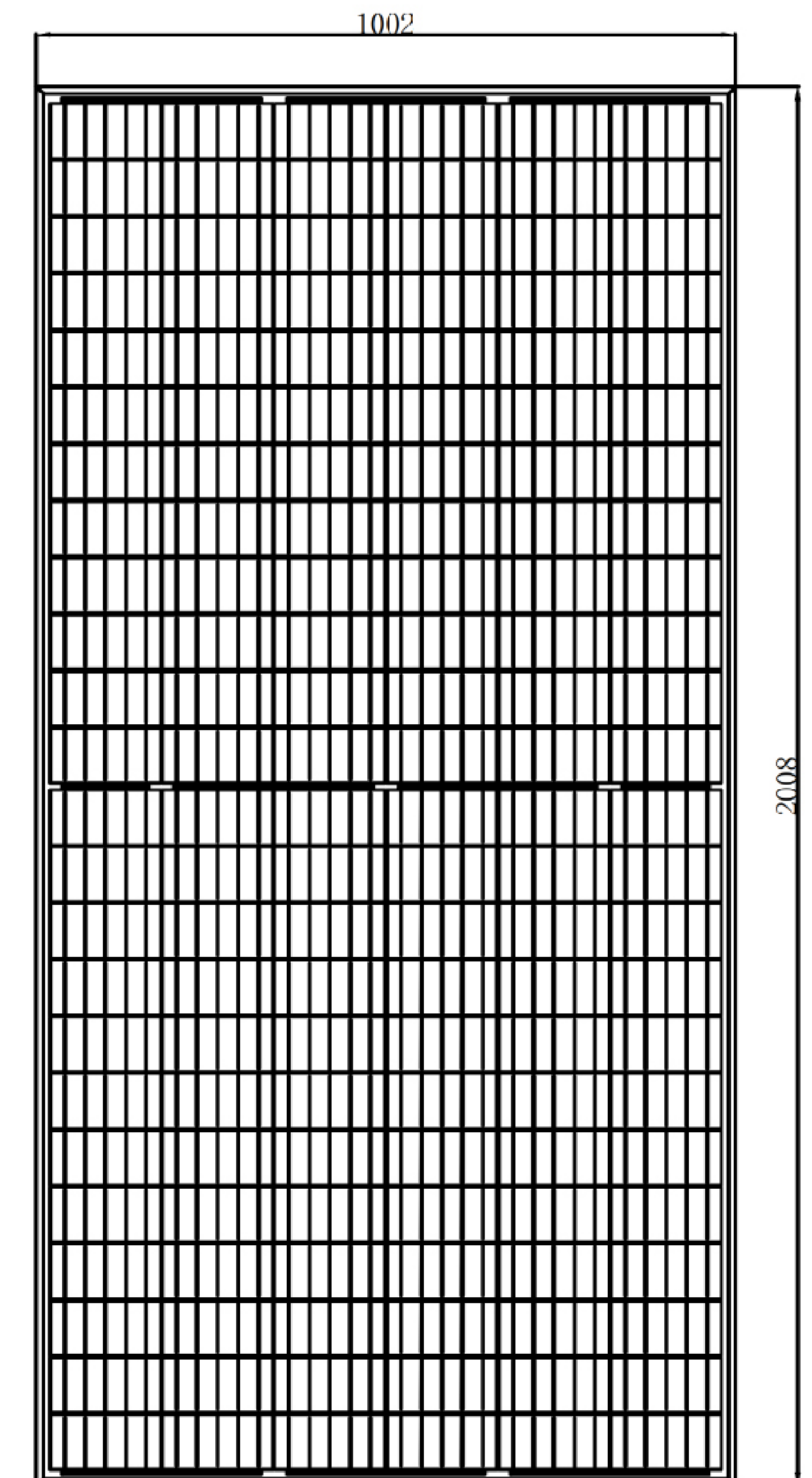
NOCT*	45±2°C
Temperature Coefficient of Pmax (%)	-0.360/°C
Temperature Coefficient of Voc (%)	-0.289/°C
Temperature Coefficient of Isc (%)	0.048/°C

Maximum System Ratings

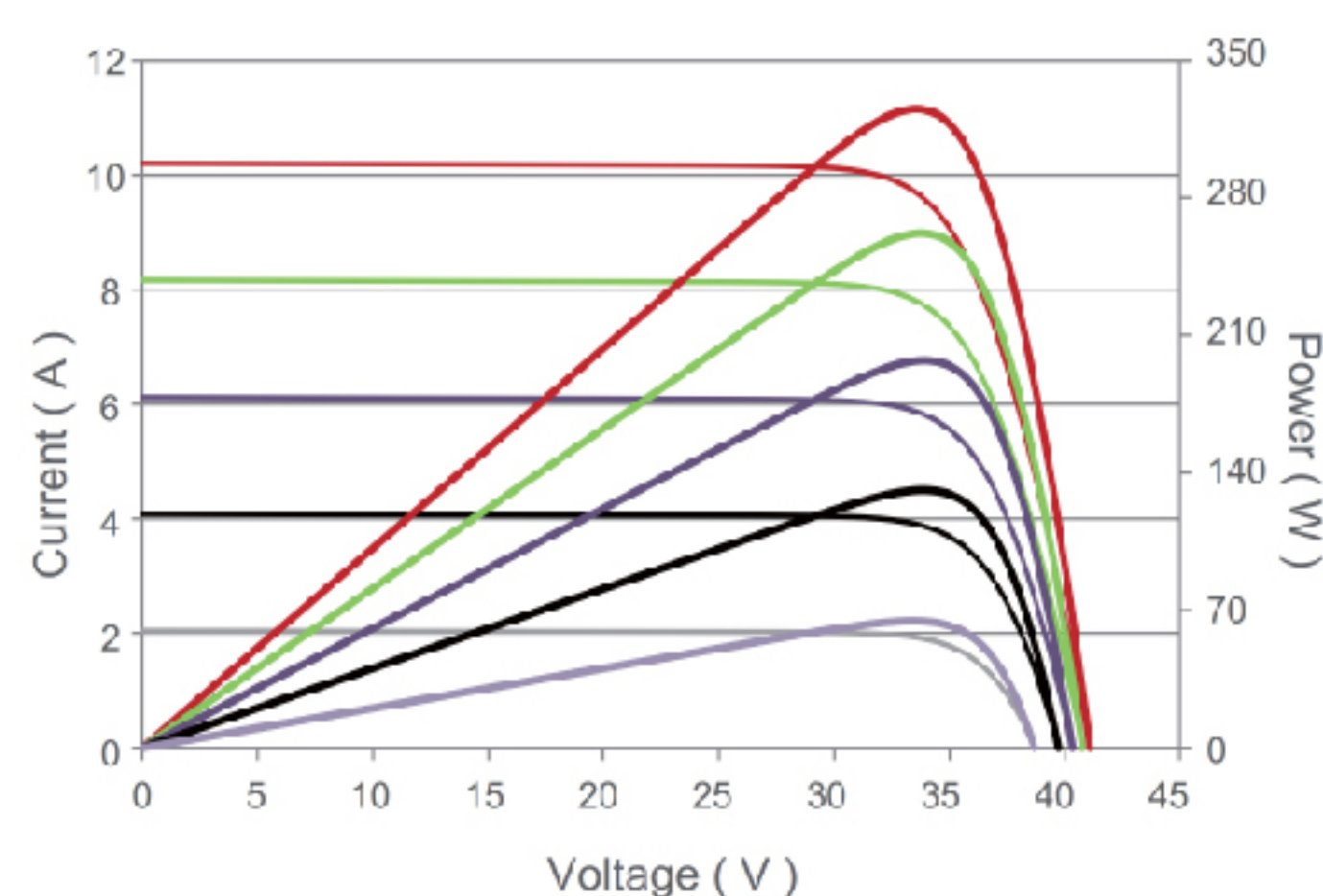
Operating Temperature	-40°C to +85°C
Maximum System Voltage	1000V DC
Maximum Series Fuse Rating	20A

Warranty

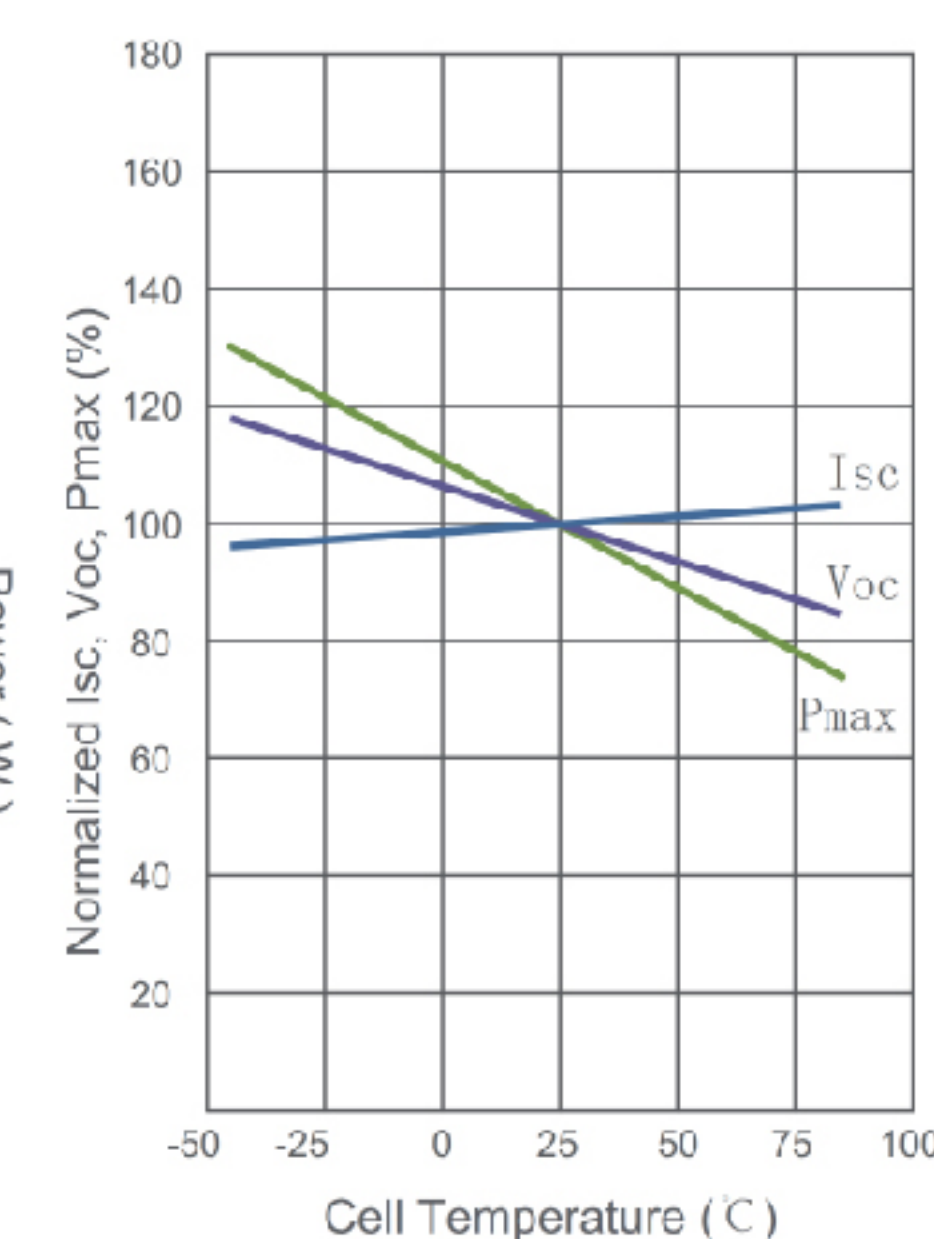
- 10 years product warranty
- 12 years warranty on 90% power output
- 25 years warranty on 80% power output



Current-Voltage & Power-Voltage Curves (390W)



Temperature Dependence of Isc, Voc, Pmax



*STC (Standard Testing Conditions): Irradiance 1000W/m², cell temperature 25°C, AM=1.5 Power measurement tolerance:0~+3% Specifications are subject to change without further notification FSM-EN-2017V1.0 © Copyright 2017 Finergy