



## 280~310 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

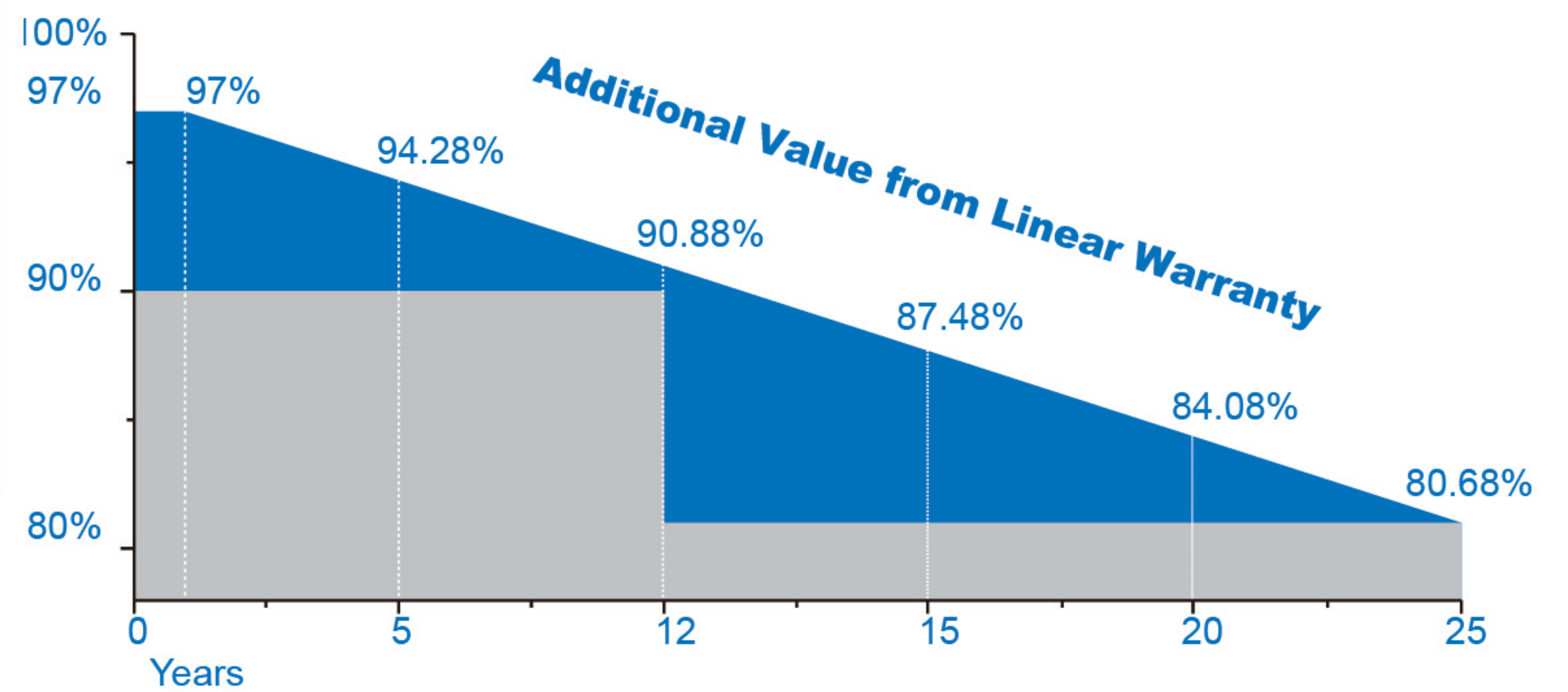


OHSAS 18001: International standard for occupational health and safety assessment system

### PRODUCT CERTIFICATES



### WARRANTY



**10** Years  
Material & Craft  
Quality  
assurance

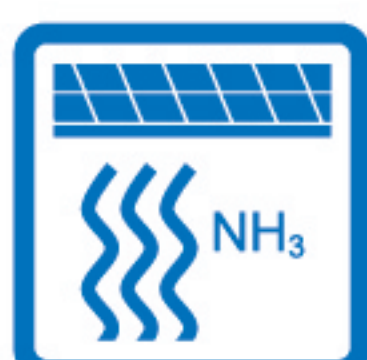
**12** Years  
90% Output  
Power  
guarantee

**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.



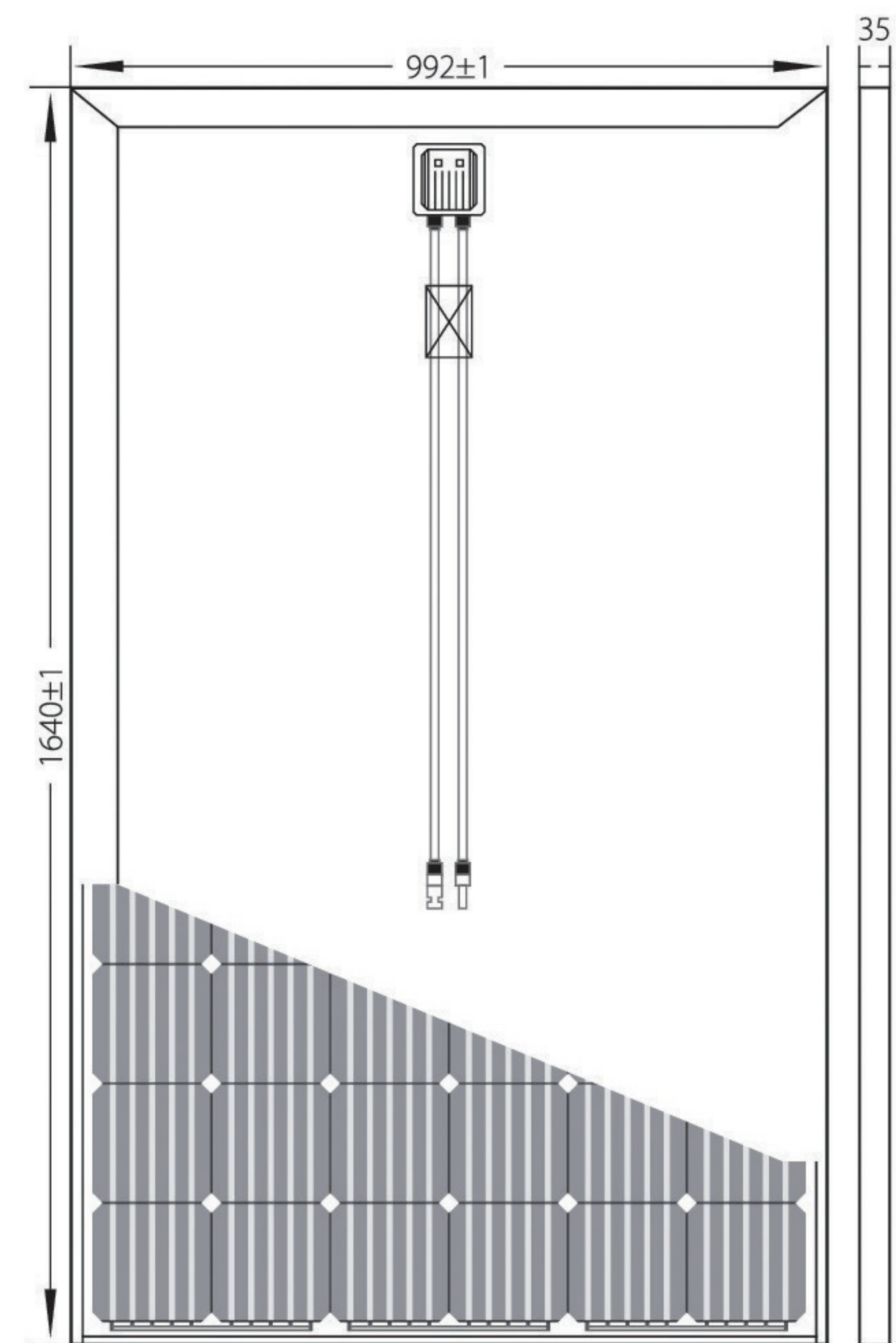


## Electrical Characteristics under STC\*

Module Type	FSM280M660	FSM285M660	FSM290M660	FSM295M660	FSM300M660	FSM305M660	FSM310M660
Maximum Power-Pmax (Wp)	280	285	290	295	300	305	310
Voltage at Maximum Power-Vmp (V)	32.3	32.7	33.1	33.5	33.9	34.3	34.7
Current at Maximum Power-Imp (A)	8.67	8.72	8.76	8.81	8.86	8.90	8.94
Open Circuit Voltage-Voc (V)	39.3	39.8	40.2	40.6	41.0	41.4	41.8
Short Circuit Current-Isc (A)	9.50	9.55	9.62	9.75	9.83	9.87	9.92
Module Efficiency-ηm (%)	17.1	17.5	17.8	18.0	18.3	18.6	19.0
Power Tolerance (%)	0/+3	0/+3	0/+3	0/+3	0/+3	0/+3	0/+3

## Mechanical Characteristics

Cell Type	Mono-crystalline 156.75x156.75mm(6 inches)
Number of Cells	60 (6x10)
Dimension	1640x992x35 mm (64.57x39.06x1.38 inches)
Weight	20.0 kg
Front Glass	Low Iron Tempered Glass
Encapsulant	EVA
Frame	Anodized Aluminum Alloy



## Temperature Characteristics

NOCT*	45±2°C
Temperature Coefficient of Pmax (%)	-0.40/°C
Temperature Coefficient of Voc (%)	-0.31/°C
Temperature Coefficient of Isc (%)	0.04/°C

## Maximum System Ratings

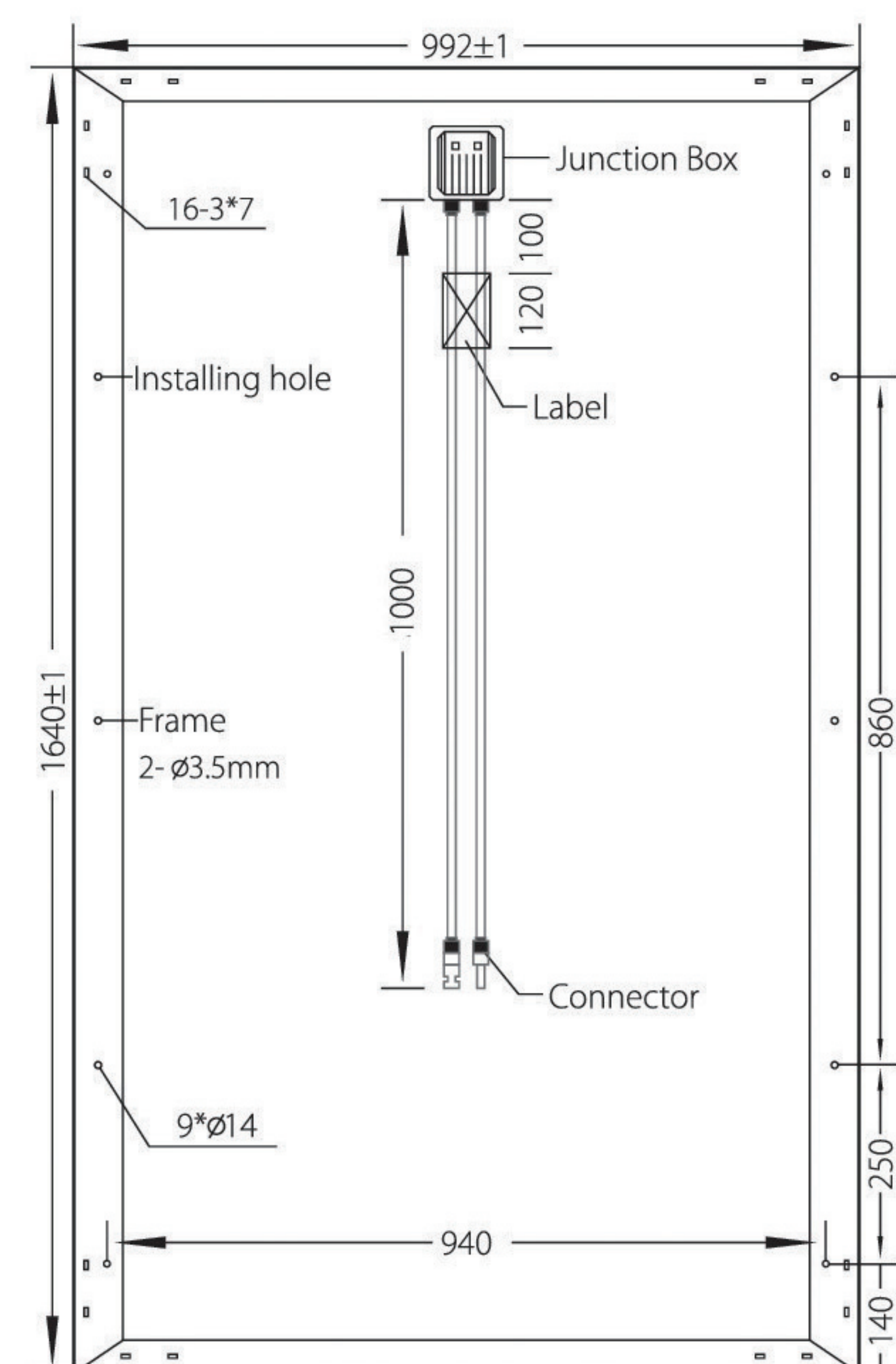
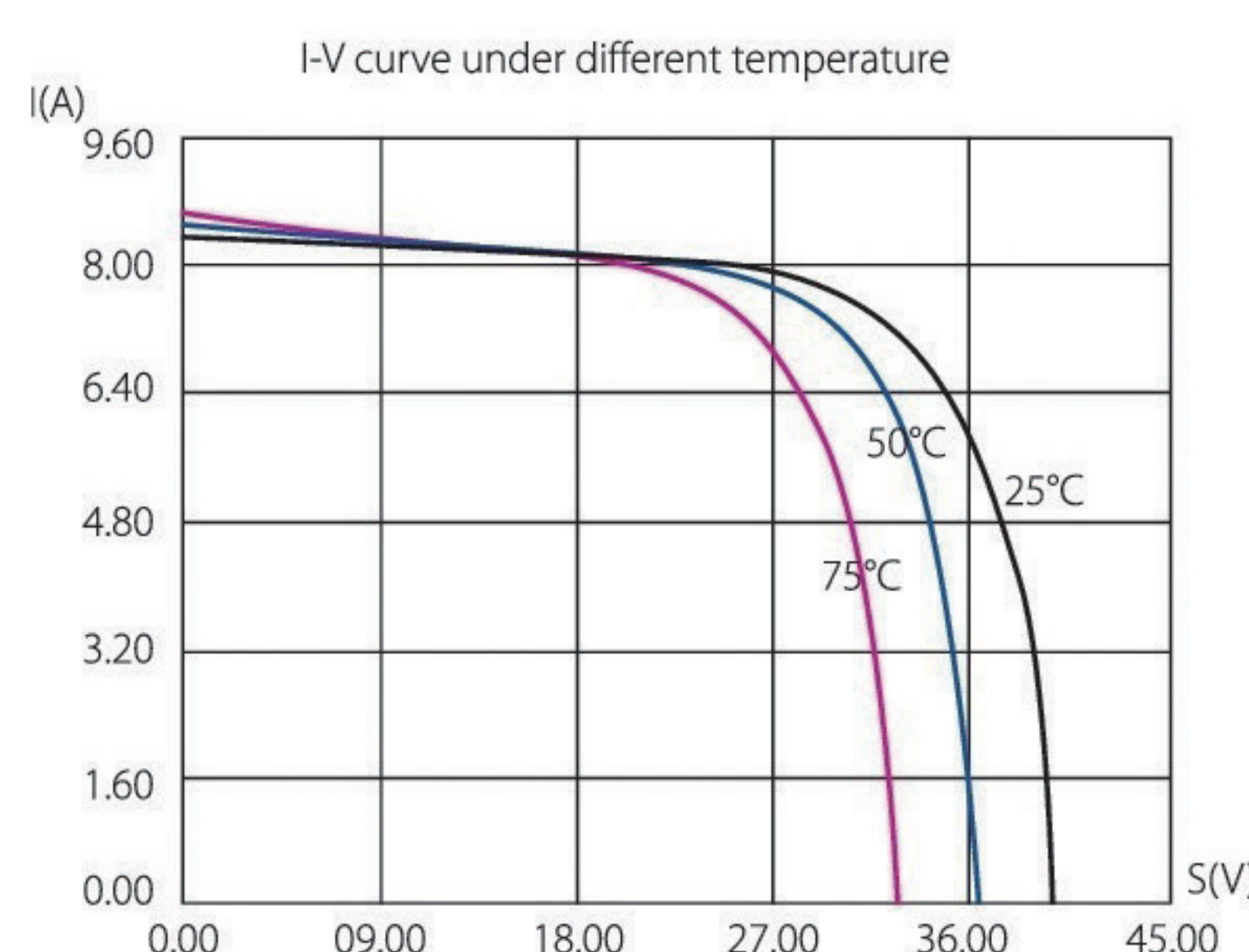
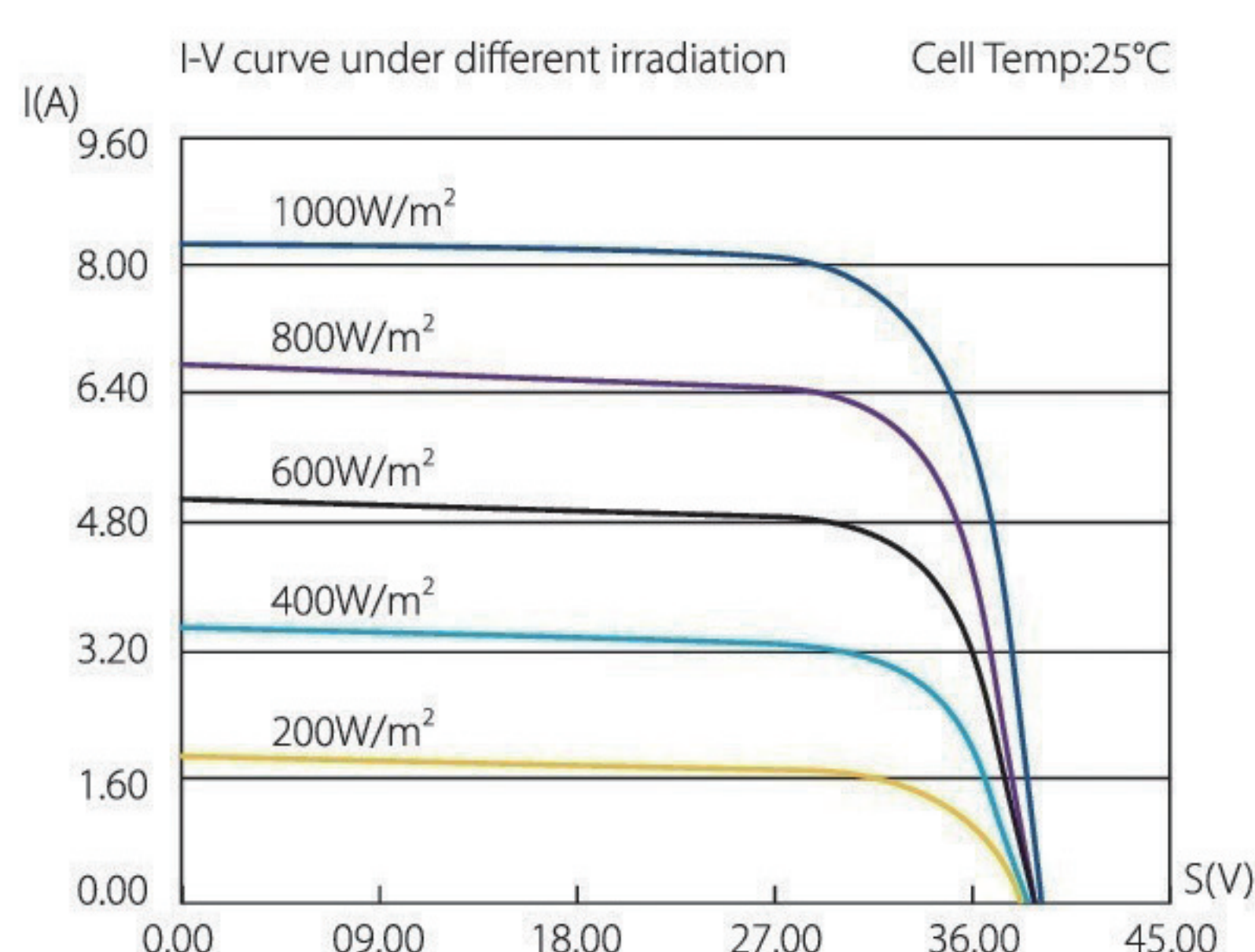
Operating Temperature	-40°C to +80°C
Maximum System Voltage	1000V DC
Maximum Series Fuse Rating	16A

## Warranty

10 years product warranty

12 years warranty on 90% power output

25 years warranty on 80% power output



\*STC (Standard Testing Conditions): Irradiance 1000W/m<sup>2</sup>, 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