



295Watt Poly Module
FSMXXXP-60H Series

Introduction

This time-tested legacy module series has been proven to be one of the powerful and most reliable products offered by FutureSolar and the most popular choice by PV system installers and customers around world.

120 LAYOUT
POLYCRYSTALLINE MODULE

275-295W
POWER OUTPUT RANGE

17.8%
MAXIMUM EFFICIENCY

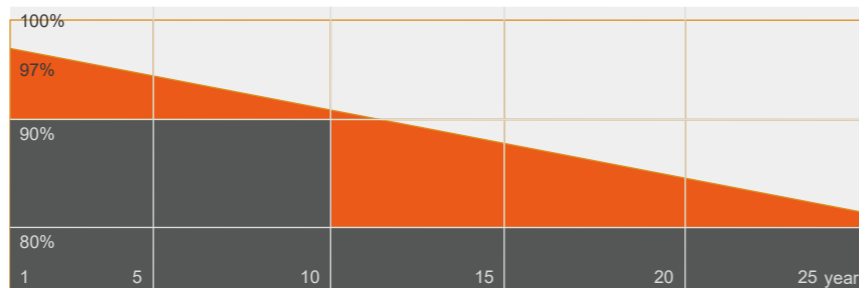
0~+5W
POSITIVE POWER TOLERANCE

KEY FEATURES

- 5 Busbar Solar Cell:**
5 busbar solar cell adopts new technology to improve the efficiency of modules, offers a better aesthetic appearance, making it perfect for rooftop installation.
- High Power Output:**
Polycrystalline 72-cell module achieves a power output up to 340Wp.
- PID RESISTANT:**
Eagle modules pass PID test, limited power degradation by PID test is guaranteed for mass production.
- Low-light Performance:**
Advanced glass and surface texturing allow for excellent performance in low-light environments.
- Severe Weather Resilience:**
Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).
- Durability against extreme environmental conditions:**
High salt mist and ammonia resistance.
- Temperature Coefficient:**
Improved temperature coefficient decreases power loss during high temperatures.

Superior Warranty

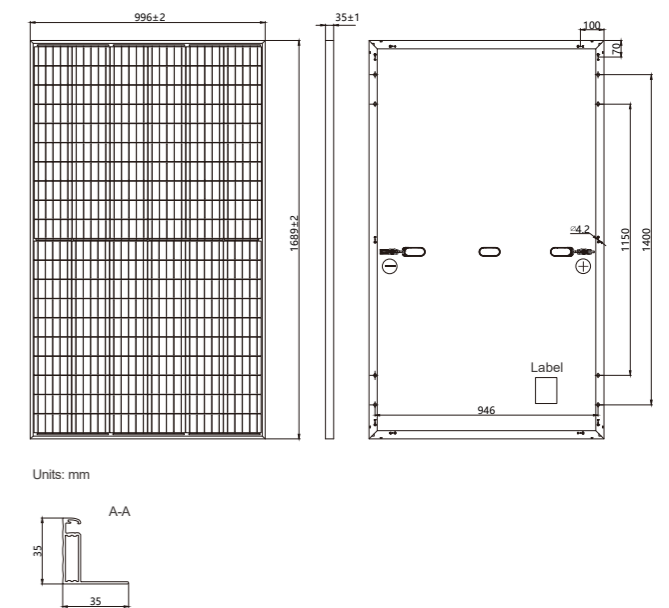
- 12-year product warranty
- 25-year linear power output warranty



■ FutureSolar Linear Power Warranty ■ Industry Warranty



Engineering Drawing



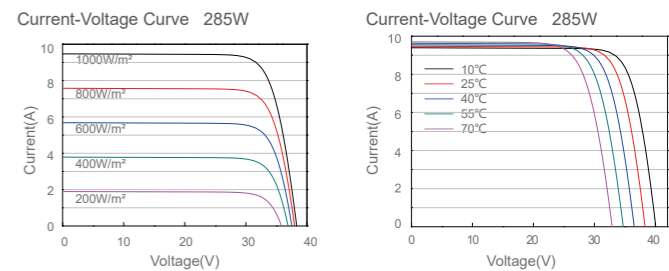
Mechanical Parameters

Cell Type	Poly 156.75×156.75 mm
No. of cells	120 (6×20)
Dimensions	1690×996×35mm (66.53×39.21×1.37 inch)
Weight	18.7 kg (41.22 lbs)
Front Glass	3.2mm, High Transmission, Low Iron, Tempered Glass
Back Glass	Anodized Aluminium Alloy
Junction Box	IP67 Rated
Cables (Including connectors)	TUV 1×4.0mm ² Portrait:280mm(11.02 inch); Landscape:1000mm/1000mm(39.37 inch)

Working Conditions

Maximum System Voltage	1000V/1500V DC (IEC)
Operating Temperature	-40°C~+85°C
Maximum Series Fuse	25A
Maximum Static Load, Front (e.g., snow and wind)	5400Pa (112 lb/ft ²)
Maximum Static Load, Back (e.g., wind)	2400Pa (50 lb/ft ²)
NMOT	45±2°C
Application Class	Class A

Electrical Performance & Temperature Dependenc



Packaging Configuration

(Two pallets=One stack)
30pcs/pallet, 60pcs/stack, 600 pcs/40'HQ Container

Electrical Parameters

Module	FSM275P-60H		FSM280P-60H		FSM285P-60H		FSM290P-60H		FSM295P-60H	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Rated Maximum Power at STC (W)	275Wp	204Wp	280Wp	208Wp	285Wp	212Wp	290Wp	216Wp	295Wp	220Wp
Maximum Power Voltage (Vmp/V)	31.2V	29.3V	31.4V	29.5V	31.7V	29.7V	31.9V	29.9V	32.1V	30.1V
Maximum Power Current (Imp/A)	8.81A	6.94A	8.90A	7.03A	8.99A	7.12A	9.09A	7.21A	9.18A	7.30A
Open Circuit Voltage (Voc/V)	37.95V	36.7V	38.1V	36.9V	38.3V	37.0V	38.4V	37.2V	38.6V	37.4V
Short Circuit Voltage (Isc/A)	9.29A	7.40A	9.38A	7.49A	9.47A	7.58A	9.56A	7.67A	9.65A	7.75A
Module Efficiency [%]	16.30%		16.75%		16.91%		17.20%		17.50%	
Power Tolerance (W)					0~+5W					
Temperature Coefficient of Isc (dIsc)					0.048%/°C					
Temperature Coefficient of Voc (βVoc)					-0.25%/°C					
Temperature Coefficient of Pmax (γPmp)					-0.35%/°C					
STC	Irradiance 1000W/m ² , Cell Temperature 25°C, AM=1.5									

Specifications subject to technical changes and tests. FutureSolar reserves the right of final interpretation.