ESPVM 290-315W

MONO

Introduction

High energy transfer efficiency cells applied in our solar panels to ensure high power for the whole modules. Full automatic cell selection, welding and asse mbling lines to ensure top quality products and minimal defects.

The current division technology are applied to effectively reduce the loss of u p to 2% due to mismatch and increasing the power output of the system.

High transmission tempered glass with surface carving technology to provide outstanding low-light performance.

- Efficiency up3%-15%
- Aluminum frame protection
- Low radiation
- Temperature Coefficient

- IEC 61215,IEC 61730
- ISO 14001：2015
- TUV Certificate
- ISO 9001：2015
- OHSAS 18001

Electrical parameters under STC

Model	ESPV-290M	ESPV-300M	ESPV-310M	ESPV-315M
Maximum power [W]	290W	300W	310W	315W
Open circuit [V]	38.67V	39.38V	40.30V	40.53V
Short circuit [A]	9.74A	9.89A	10.04A	10.11A
Maximum power [V]	31.44V	32.02V	32.60V	32.89V
Maximum power [A]	9.23A	9.37A	9.51A	9.58A
Maximum power	0,+4.99			
Maximum system voltage	1000VDC			
Fuse maximum current	20A			
SPC	Radiation 1000W/㎡, battery temperature 25℃, spectrum AM1.5G			

Mechanical specifications

External dimensions	1650*992*35mm
Weight	17.0KG
Cell	Mono 156.75 x 156.75 mm(60pcs)
Glass	3.2mm anti-reflection film tempered glass, low iron
Frame	Anodized aluminum
Junction Box	IP68，3 diodes
Out put Line	4.0㎜²，portrait:255mm(+)/355mm(-);landscape:1200mm
Connector	MC4 Compatible
Mechanical load	5400 Pa

Temperature characteristics

Maximum power temperature coefficient	-0.38 %/℃
Open circuit voltage temperature coefficient	-0.28 %/℃
Short-circuit current temperature coefficient	+0.05 %/℃
Operating temperature	-40 ~ +85 ℃
Normal working cell temperature	45±2℃