

460W PERC Halfcell

ESPV430-460W/HC

Introduction

The half cell combines PERC double-sided battery technology and double glass module structure, which can absorb energy from the front and absorb reflected light and scattered light from the back. The power generation capacity is better, the efficiency is higher and more stable.



Efficiency up 3%-15%



Aluminum frame protection



Low radiation



Temperature Coefficient

- IEC 61215, IEC 61730
- ISO 14001 : 2015
- IEC TS 62941
- ISO 9001 : 2015
- OHSAS 18001



STC Electrical parameters

Model	ESPV-430/HC	ESPV-440/HC	ESPV-450/HC	ESPV-460/HC
Maximum power [W]	430	440	450	460
Open circuit [V]	48.7	48.9	49.1	49.4
Short circuit [A]	9.95	10.03	10.10	10.15
Maximum power [V]	41.2	41.4	41.6	41.9
Maximum power [A]	9.47	9.55	9.62	9.67
Maximum power [%]	19.32	19.56	19.81	20.06
Maximum power	0,+4.99			
Maximum system voltage	100VDC/1500VDC			
Fuse maximum current	20A			
Fuse maximum current	Radiation 1000W/m ² , battery temperature 25°C, spectrum AM1.5G			

Temperature characteristics

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

Mechanical specifications

External dimensions	2205 x 1032 x 40 mm
Weight	24.0KG
Cell	Mono 160.75 x 80.375 mm(156片)
Glass	3.2mm anti-reflection film tempered glass, low iron
Frame	Anodized aluminum
Junction Box	IP68 , 3 diodes
Out put Line	4.0mm ² , portrait:255mm(+)/355mm(-);landscape:1200mm
Connector	MC4 Compatible
Mechanical load	5400 Pa