



TM

SHENZHEN SUNCHAM POWER CO.,LTD

Schematic diagram

Overview

- High efficiency SunPower solar cells (Up to 22.6%) with quality silicon material for high module conversion efficiency and long term output stability and reliability.
- Rigorous quality control to meet the highest international standards.
Outstanding electrical performance under high temperature and weak light environments.



Applications

- Any large or small off-grid solar power stations.

Warranty

- 2 year limited product warranty on materials and workmanship
- 10 year warranty on >90% power output

Certifications

- CE



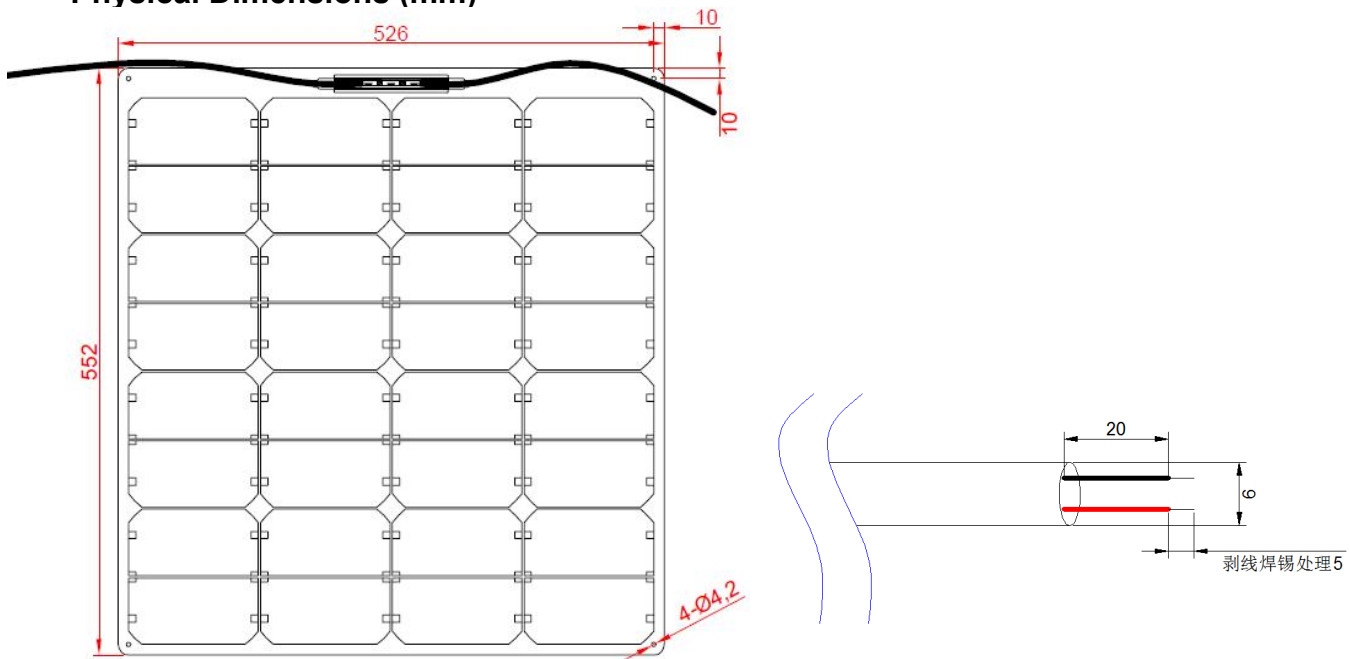
Mechanical Specifications

Characteristic	Details
Cell Size	125mm x 125mm (4.92" x 4.92")
Module Dimension (L x W x T)	552mm x 526mm x 3mm (21.73" x 20.7" x 0.11")
No. of Cells	32 = 4 x 8 pcs
Weight	0.96 kg (2.12 lbs)
Front material	High frame and UV resistant ETFE
Frame	None
Cable Length	500mm (19.7") for positive (+) and negative (-)
Type of Connector	None
Junction Box	IP67 Rated
Packing Configuration	10 pcs/ctn
Carton size	570mm x 540mm x 100mm (22.44" x 21.26" x 3.94")

Electrical Specifications

*Standard Test Conditions	(Irradiance of 1000W/m ² , spectrum AM 1.5g and cell temperature of 25°C)
Model	PhotoFlex-SPP50-18SP
Maximum Power P _{max}	50W (0%, +3%)
Cell Type	SunPower Monosilicon
Voltage at Maximum Power Point (V _{mpp})	17.6V
Current at Maximum Power Point (I _{mpp})	2.84A
Open Circuit Voltage (V _{oc})	21.6V
Short Circuit Current (I _{sc})	3.10A
Max System Voltage (IEC/UL)	1000V
Operating temperature	-40°C to +85°C
Un-laminated Cell Temperature Coefficients	
Temperature Coefficient of P _{max}	(-0.32% /°C)
Temperature Coefficient of V _{oc}	(-0.18% /°C)

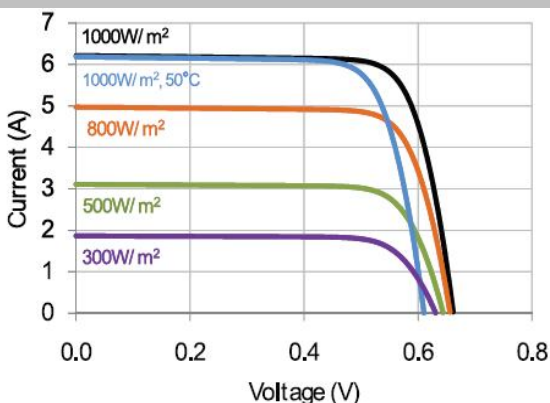
Physical Dimensions (mm)



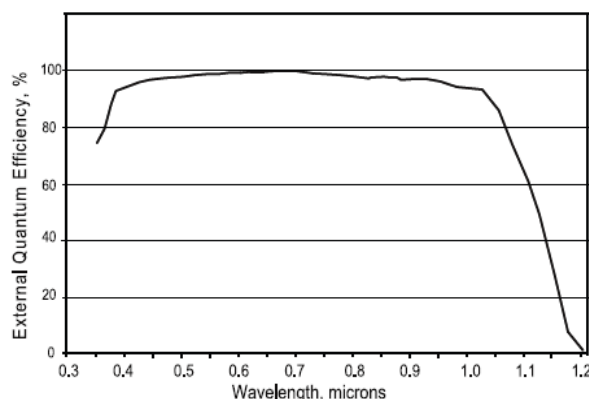
Other Performance Data

Power Tolerance	Operating Temperature	Max Series Fuse Rating	NOCT*
0%, +3%	-40 °C to +85 °C	5 A	45 °C ± 2 °C

TYPICAL-V CURVE



SPECTRAL RESPONSE



F4-5,Block7,Huidebao
 Industrial park Guangung
 Rd,Guangming New District,
 Shenzhen City,China
 Tel: +86-755-29420722
 Fax:+86-755-29420733
 Sales@sunchampower.com
 Http://www.sunchampower.com