

SPM020P

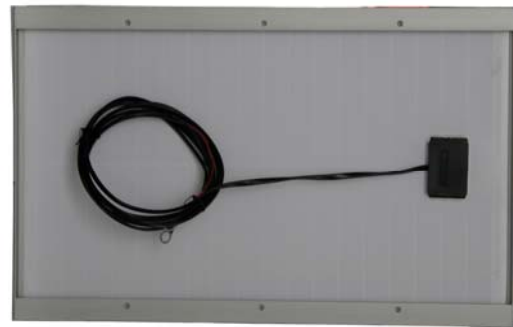
FEATURE:

- IEC61215, TUV certification
- UL 1703 certification
- Using high efficiency 6" Multicrystalline cells.
- Using low iron tempered glass and an EVA pottant with PET back sheet to encapsulated cells.
- Anodized aluminum frame protected structural strength.
- 10 years limited warranty of 90% power output and 25 years limited warranty of 80% power output.



High-efficiency, High-Quality Multicrystalline Photovoltaic Module

ASUN Energy manufactures clean, elegant and durable modules with advanced industry-leading performance for different electrical power requirements. It is designed and built to deliver highest efficiency and reliable power for on-grid residential and commercial systems worldwide.



ASUN 20Watt panels could applied in Electrification of villages in remote areas, power source for summer vacation homes, water quality and environmental data monitoring systems, Emergency communication systems, Microwave/radio repeater stations, railroad signals, etc.



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ELECTRICAL CHARACTERISTICS

	SPM022P	SPM020P	SPM018P
Power at STC(P _m)	22W	20W	18W
Maximum power voltage(V _{pm})	18.1V	17.2V	16.5V
Maximum power current(I _{pm})	1.24A	1.17A	1.10A
Open circuit voltage(V _{oc})	22.1V	21.7V	21.0V
Short circuit current(I _{sc})	1.32A	1.25A	1.1A
Tolerance	±5%	±5%	±5%
Module efficiency	10.9%	10.0%	8.9%
Maximum system voltage	1000V DC		
Standard test conditions	Temperature 25°C, Irradiance 1000W/m², AM=1.5		
Temperature coefficient	I _{sc} :0.05%/K	V _{oc} : -0.36%/K	P _{max} : -0.46%/K

Specifications

Cell	Multicrystalline silicon solar cell, (156mmx26mm)
No. of cell and connection	36 (2x18)
Dimension	550mm (21.7in) x350mm(13.8in)x25mm(0.98in)
Weight	2.6KG

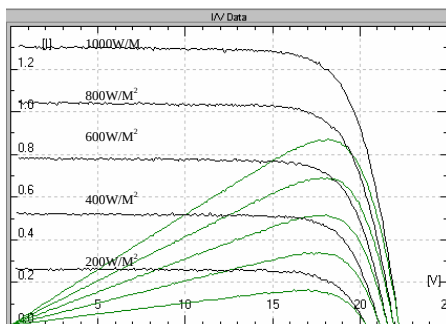
AMBIENT CONDITIONS

Operating Temperature	-40°C to +85°C
Storage Humidity	<90%

OUT PUT

Type of output terminal	Junction box (one diode and two terminals)
Cable	Length 3000mm

IV CURVES



OUTLINE DIMENSIONS

