

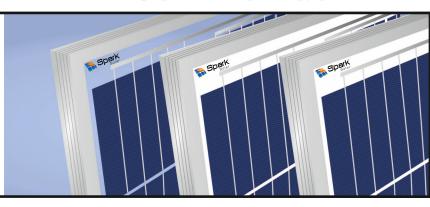
Powered By The Sun™

HIGH PERFORMANCE SUPERIOR QUALITY

SPARK 72 CELL | 5 Bus Bar Poly Crystalline Module

Positive power tolerance of O/+5W

IEC certified products.



QUALITY BY SPARK SOLAR

Solar Modules are at the core of solar power system. That is why you should rely on the best products available in the market when you select solar modules. There's only one right choice here: Spark Solar. Worldwide, our customers have embraced these panels for their excellent performance, superior reliability and enhanced value.

Spark Solar panels are designed and manufactured to the highest standards of quality, performance and durability. The foundation of Spark Solar is built on years of ongoing innovation, continuous optimization and technology expertise. All production steps are established at our production site ensuring the highest possible quality for our customers.

SPARK SOLAR'S ADDED VALUE



Special Five Bus Bar Design

Thanks to improved temperature co-efficient caused by 5 busbar solar cell. A shorter distance for electrons to travel vastly reduces electrodes resistance and raise in conversion efficiency. Less residual stress, less microcracks and hotspot risks ensure more power generation in 25 years.



A Reliable Investment

Inclusive 10-year product warranty and 25-year linear performance warranty*



Excellent Module Efficiency

High module efficiency is achieved through advanced cell technology and manufacturing capabilities



New All- Weather Technology

Optimal yields, with excellent low-light and temperature behavior.









Hi Tech 40 mm Frame

Widest reinforced frame profile in the industry to endure more load.



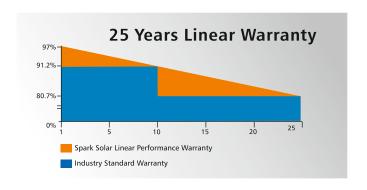
Advanced Glass

Our high-transmission glass features a unique anti-reflective coating that directs more light on the solar cells, resulting in a higher energy yield.



100% EL-Test

All modules pass through Electroluminescence test, which ensures no micro- crack for more reliability.



Spark 72 Cell | 5Bus Bar - P Series

upto 17.8%

EFFICIENCY

10

YEAR PRODUCT WARRANTY

25

YEAR LINEAR POWER OUTPUT

WARRANTY

TEMPERATURE RATINGS

Nominal operating cell temperature (NOCT) 44.0°C (\pm 3°C) Temperature coefficient of P_{MPP} (Y) -0.39 %/°C Temperature coefficient of I_{SC} (β) -0.31 %/°C +0.05 %/°C

GENERAL DATA

Cell type : Multi-crystalline / PERC Cell Matrix : 72 cells (6 x 12) Junction box : Protection class IP 67 or 68, with 3 bypass diodes Cable : 4mm^2 solar cable, ≥ 1200 mm, Frame : Silver anodized aluminum alloy Glass : 3.2 mm low iron solar glass with anti-reflective coating Connectors : UTX / TS4 / Multi-Contact MC4 (4 mm²)

MAXIMUM RATINGS

Operating temperature: -40 upto +85°C 1000 VDC / 1500 VDC Maximum system voltage (IEC/UL) 20 A Max series fuse rating 20 A Max reverse current 367 kg/m² (3600 Pa)* Design load (+) 550 kg/m² (5400 Pa) Maximum test load (+) 163 kg/m² (1600 Pa)* Design load (-) wind 244 kg/m² (2400 Pa) Maximum test load (-) Class A **Application Classification** Safety Class C Fire Rating

MECHANICAL SPECIFICATION

 Dimensions
 :
 1960 x 990 x 40 mm

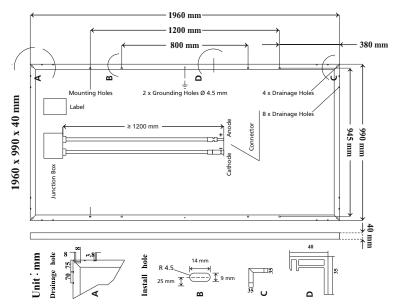
 Area
 :
 1.94 m²

 Weight
 :
 22.5 kg (49.6 lbs)

PACKAGING INFORMATION

Container Size 20' 40'HC Quantity Per Pallet : 22 24 Pallets/Container : 12 24 Quantity/Container : 264 576

Note: Specification subject to change without notice. Installation instructions must be followed. See the installation manual or contact technical service department for further information on approved installation. Atleast 97% of nominal power during first year. Thereafter max. degression in performance of 0.7% p.a. See warranty conditions for further details. Spark Solar reserve the right to make any adjustment to the information described herein at anytime without notice.



ELECTRICAL DATA@S1	TC Pi	Product Code* : SSxxx72P 5BB					
Nominal Power - P,	(Wp) 320	325 3	30 3	335	340	345	
Watt Class Sorting - (V	W) -0/+5	-0/+5 -0	0/+5 -	0/+5	-0/+5	-0/+5	
Nominal Power Voltage - V	/ _{MPP} (V) 37.0	37.3 3	7.4 3	37.6	37.8	38.0	
Nominal Power Current - I _M	_{APP} (A) 8.65	8.72 8	.84 8	3.91	9.0	9.08	
Open Circuit Voltage - V	/ _{oc} (V) 46.0	46.3 4	6.4	46.7	47.0	47.2	
Short Circuit Current - I _{so}	_{sc} (A) 9.18	9.24 9	.29 9	9.34	9.4	9.45	
Panel Efficiency - (%	%) 16.5	16.8 1	7.0 1	17.3	17.5	17.8	

Values at standard test conditions (STC : air mass Am 1.5, irradiance 1000 W/m², temperature 25°C). based on a production spread with a tolerance of Voc & Isc \pm 3% within one watt class. *Where xxx indicates the nominal power class ($P_{\rm loop}$) at STC indicated above, and can be followed by the suffix XV for 1500 V rated modules.

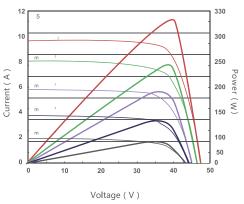
ELECTRICAL DATA@NMOT				Product Code* : SSxxx72P 5BB						
	Nominal Power	-	P _{MPP} (Wp)	233.4	237.1	240.7	244.4	248	251.7	
	Nominal Power Voltage	-	V_{MPP} (V)	33.8	34.0	34.1	34.3	34.4	34.6	
	Nominal Power Current	-	I _{MPP} (A)	6.91	6.98	7.07	7.13	7.2	7.26	
	Open Circuit Voltage	-	V _{oc} (V)	42.5	42.7	42.9	43.1	43.4	43.7	
	Short Circuit Current	_	I _{sc} (A)	7.42	7.47	7.51	7.55	7.6	7.64	

Nominal Module operating temperature (NMOT: air mass AM 1.5, irradiance 8000 W/m², temperature 20°C), windspeed 1m/s.)

"Where xxx indicates the nominal power class (P_{uer}) at STC indicated above, and can be followed by the suffix XV for 1500 V rated modules.

Electrical Performance & Temperature Dependence

Current-Voltage & Power-Voltage Curves



Temperature Dependence



