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Solar Panel Guide Specification Data Sheet

**Tesla PV
TSPM100
TSPM100-24**

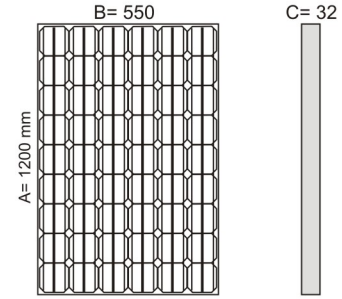
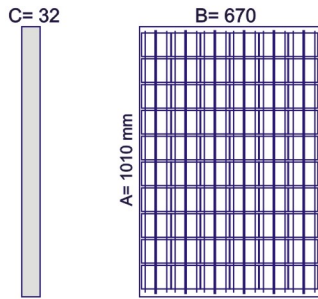
Also available on the web at
EnergyPal.com/tesla-pv-solar-panels/tspm100-24

TSPP

100 Watt

TSPM

SPECIFICATIONS



Front Glass

Frame

Junction Box

Connector

Output Cables

Weight

AR coated 3.2 mm Low iron tempered glass

Anodized aluminum alloy

IP 65, with bypass diodes

MC4 compatible

TUV + length 900mm, 4mm²

7.2kg

100 % EL tested

Poly crystalline (± 3 %)

Cell Type

Mono crystalline (+ 3 %)

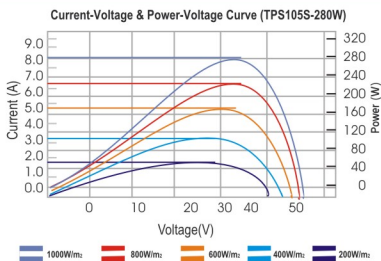
PERFORMANCE AT STANDARD TEST CONDITIONS (STC: 1000 W/m², 25°C, AM 1.5)

TSPP 100-12		TSPP 100-24		Maximum Power at STC (Pmax)	TSPM 100-12		TSPM 100-24	
12	24	5.9	3.1		Nominal Voltage	12	24	6.8
21	42	5.1	2.6	Short Circuit Current (ISC)	23	42	5.5	2.6
19	38	>15 %	>15 %	Open Circuit Voltage (Voc)	18	38	>16.5 %	>16.5 %
>15 %	>15 %	>14 %	>14 %	Maximum Power Current (Imp)	>15 %	>15 %	>15 %	>15 %
				Maximum Power Voltage (Vmpp)				
				Encapsulated Cell Efficiency				
				Module Efficiency				
				Power Tolerance				

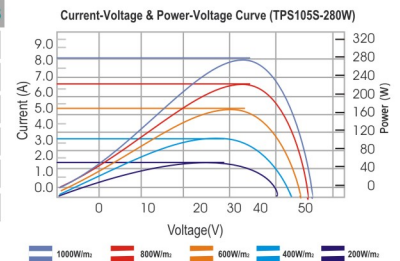
PERFORMANCE AT NORMAL OPERATING CELL TEMPERATURE (NOCT: 800W/m², 47±3°C, AM 1.5)

TSPP 100-12		TSPP 100-24		Maximum Power (Pmax) Watt	TSPM 100-12		TSPM 100-24	
73	73	4.9	2.6		Short Circuit Current (ISC) Amp	72	72	5.9
19.5	39.0	4.18	2.13	Open Circuit Voltage (Voc) Volts	20	20	4.6	4.6
16.9	33.8			Max Power Current (Imp) Amp	16	16		
				Max Power Voltage (Vmpp) Volts				
				Weight				

The typical relative change in module efficiency at an irradiance of 200W/m in relation to 1000W/M (both at 25°C and AM 1.5 spectrum) is less than 6%



TEMPERATURE CHARACTERISTICS		SYSTEM INTEGRATION PARAMETERS	
Nominal Operating Cell Temperature (NOCT)	47±3 C	Maximum system voltage	DC 1000V
Temperature Coefficient of Pmax (γ)	-0.47%/K	Maximum Series Fuse	16A
Temperature Coefficient of Voc (B)	-0.36%/K	Maximum reverse current	21.5A
Temperature Coefficient of Isc (G)	0.05%/K	Increased snowload acc. To IEC 61215	5400Pa/m
		Operating Temperature	-40+85 C
		Number of bypass diodes	6



Conformance : IEC 61215 , 61730

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