

serengeti™

BENEFITS

Reliable

Proven polycrystalline technology and rigorous quality control offer long term, reliable energy delivery, backed by the dependable SunPower 25 year power warranty

Solid Performance

Each panel provides 228 rated watts with a conversion efficiency of 13.9%

Easy to Install

Junction box with integrated connectors and a versatile module format enable easy installation

Suitable for all Applications

Designed and tested for use with SunPower™ mounting systems

E13 / 228 SOLAR PANEL



SERIES



Serengeti™ Solar Panels deliver consistent long term performance. Rigorous quality assurance from SunPower Corporation ensures predictable output and proven reliability.



Electrical Data

Measured at Standard Test Conditions (STC):
Irradiance 1000W/ m², AM 1.5, and cell temperature 25°C

Model Name		SER-228P	
Peak Power (+5/-3%)	P _{nom}	228 W	
Efficiency	η	13.9 %	
Rated Voltage	V _{mpp}	29.6 V	
Rated Current	I _{mpp}	7.70 A	
Open Circuit Voltage	V _{OC}	37.8 V	
Short Circuit Current	I _{SC}	8.30 A	
Maximum System Voltage	IEC	1000 V	
Temperature Coefficients	Power	P	-0.45 %/K
	Voltage	V _{OC}	-0.35 %/K
	Current	I _{SC}	0.05 %/K
NOCT (+/-2° C)		45° C	
Series Fuse Rating		15 A	
Limiting Reverse Current (2-strings)	I _r	10.4 A	

Electrical Data

Measured at Nominal Operating Cell Temperature (NOCT):
Irradiance 800 W/m², 20°C, wind 1 m/s

Nominal Power	P _{max}	164 W
Rated Voltage	V _{mpp}	26.6 V
Rated Current	I _{mpp}	6.15 A
Open Circuit Voltage	V _{OC}	32.7 V
Short Circuit Current	I _{SC}	6.63 A

Mechanical Data

Solar Cells	60 polycrystalline solar cells
Front Glass	High transmission tempered glass
Junction Box	IP-65 rated with 3 bypass diodes 32 X 155 X 128 mm
Output Cables	1000mm length cables/ MultiContact (MC3) connectors (locking mechanism available upon request)
Frame	Anodised aluminium alloy type 6063 (silver)
Dimensions	1660 X 990 mm
Thickness	42 mm
Weight	19.1 kg

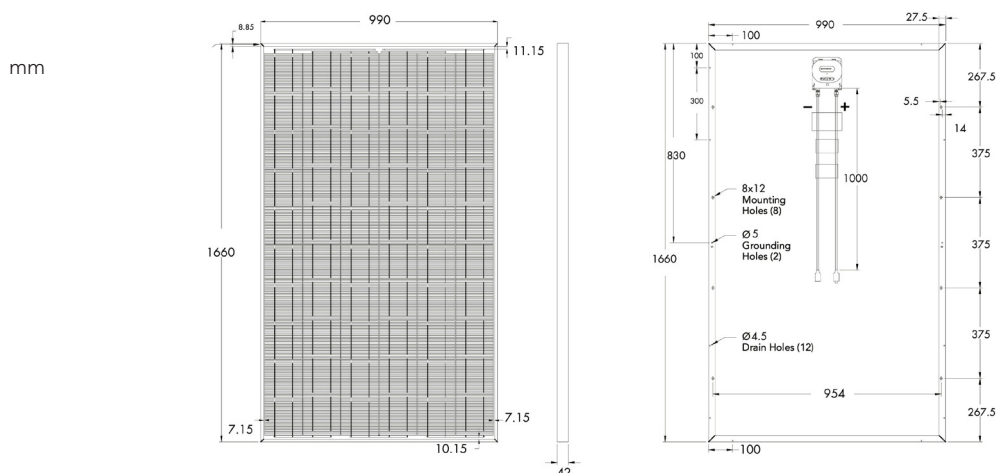
Tested Operating Conditions

Temperature	-40°C to +90°C
Max Load	245 kg/m ² (2400 Pa), front and back (e.g. wind)
	550 kg/m ² (5400 Pa), front (e.g. snow) w/specified mounting configurations
Impact Resistance	Hail - 25 mm at 23 m/s

Warranty and Certifications

Warranty	25 year limited power warranty 10 year limited product warranty
Certifications	IEC 61215 Ed. 2, IEC 61730 (SCII), UL1703

Dimensions



CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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