

SUN



An U.S. Branded Module

CELLS

144

MAXIMUM EFFICIENCY %

23.4

POSITIVE POWER TOLERANCE WP

0~+5.00

WATTAGE RANGE WP

570-605



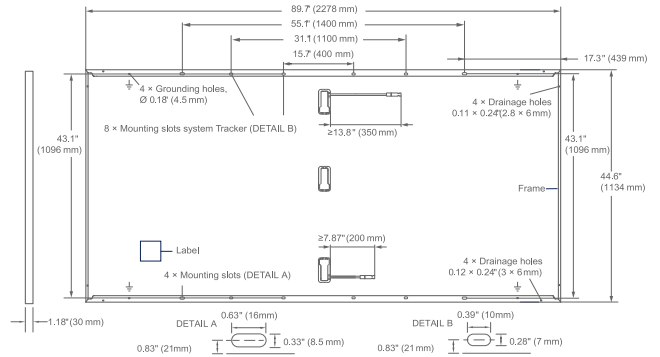
■ Qualifications and Certificates

Quality Controlled PV -
CSA;
UL 61730-1;
UL 61730-2.



■ Mechanical Specification

Dimension	2278×1134×30mm (89.7×44.6×1.18 in)
Weight	27.4kg
Front Cover	2.0 mm (0.08 in) tempered glass , Anti-Reflection Coated
Back Cover	2.0 mm (0.08 in), Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Cell	Monocrystalline
Junction Box	Protection class IP68, with bypass diodes
Cable	4mm ² Solar Cable (+)≤13.8 in (350 mm) (-)≤7.87 in (200 mm)
Connector	MC 4 or MC 4 Compatible; -IP68

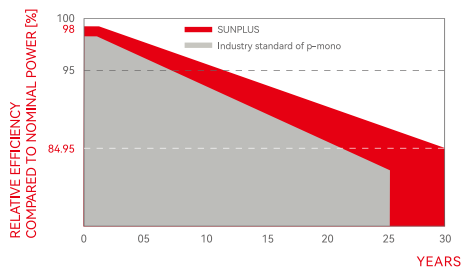


■ Electrical Characteristics

POWER CLASS			570	575	580	585	590	595	600	605
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ¹ (POWER TOLERANCE +5W / -0W)										
Minimum	Power at MPP ¹	P _{MPP} [W]	570	575	580	585	590	595	600	605
	Short Circuit Current ¹	I _{SC} [A]	13.83	13.89	13.95	14.01	14.07	14.13	14.19	14.25
	Open Circuit Voltage ¹	V _{OC} [V]	52.10	52.30	52.50	52.70	52.90	53.10	53.30	53.50
	Current at MPP	I _{MPP} [A]	13.08	13.15	13.22	13.29	13.36	13.43	13.50	13.57
	Voltage at MPP	V _{MPP} [V]	43.58	43.73	43.88	44.02	44.17	44.31	44.45	44.59
	Efficiency ¹	η [%]	≥22.1	≥22.3	≥22.5	≥22.7	≥22.8	≥23.0	≥23.2	≥23.4
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS NMOT ²										
Minimum	Power at MPP	P _{MPP} [W]	434	438	441	445	449	452	455	459
	Short Circuit Current	I _{SC} [A]	11.63	11.67	11.71	11.76	11.81	11.85	11.89	11.93
	Open Circuit Voltage	V _{OC} [V]	47.80	48.00	48.20	48.40	48.60	48.80	50.00	50.20
	Current at MPP	I _{MPP} [A]	11.03	11.07	11.11	11.16	11.21	11.25	11.26	11.30
	Voltage at MPP	V _{MPP} [V]	39.30	39.50	39.70	39.90	40.00	40.20	40.40	40.60
MINIMUM PERFORMANCE AT BIFACIAL STANDARD TEST CONDITIONS, BSCT [*]										
Minimum	Power at MPP	P _{MPP} [W]	627	633	638	644	649	655	660	665
	Short Circuit Current	I _{SC} [A]	15.13	15.19	15.25	15.31	15.37	15.43	15.49	15.55
	Open Circuit Voltage	V _{OC} [V]	52.13	52.33	52.53	52.73	52.93	53.13	53.33	53.53
	Current at MPP	I _{MPP} [A]	14.38	14.44	14.50	14.58	14.64	14.72	14.78	14.84
	Voltage at MPP	V _{MPP} [V]	43.84	43.84	44.00	44.17	44.33	44.50	44.66	44.82

¹Measurement tolerances P_{MPP} ± 3 %; I_{SC}; V_{OC} ± 5 % at STC: 1000 W/m², 25 ± 2 °C, AM 1.5 according to IEC 60904-3 • ²800 W/m², NMOT, spectrum AM 1.5
^{*}at BSCT: 1000 W/m² + φ × 135 W/m², φ = 80 %, 25 ± 2 °C, AM 1.5 according to IEC 60904-3

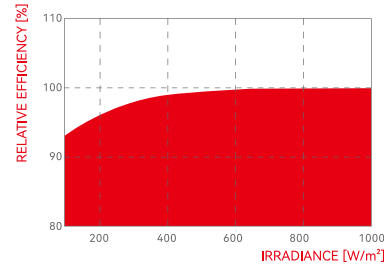
MODULE PERFORMANCE WARRANTY



At least 98 % of nominal power during first year. Thereafter max. 0.45% degradation per year. At least 95 % of nominal power up to 10 years. At least 84.95 % of nominal power up to 30 years.

All data within measurement tolerances. Full warranties in accordance with the warranty terms of the SunPlus sales organization of your respective country.

PERFORMANCE AT LOW IRRADIANCE



Typical module performance under low irradiance conditions in comparison to STC conditions (25 °C, 1000 W/m²).

TEMPERATURE COEFFICIENTS

Temperature Coefficient of I _{SC}	α	[% / K]	+0.045	Temperature Coefficient of V _{OC}	β	[% / K]	-0.25
Temperature Coefficient of P _{MPP}	γ	[% / K]	-0.29	Nominal Module Operating Temperature	NMOT	[°C]	43±3

■ Properties for system Design

Maximum System Voltage	V _{sys}	1500VDC (IEC)	PV module classification	Class II
Maximum Reverse Current	I _R	25A	Fire Rating based UL61730	Type 29
Max. Design Load, Push / Pull		5400 / 2400	Permitted Module Temperature	-40°C~+85°C
Max. Test Load, Push / Pull		8100 / 4000	on Continuous Duty	

SUNPLUS pursues minimizing paper output in consideration of the global environment