

Sun⁺



MAXIMUM EFFICIENCY %

23.20

POSITIVE POWER TOLERANCE WP

0~+5.00

WATTAGE RANGE WP

695-720



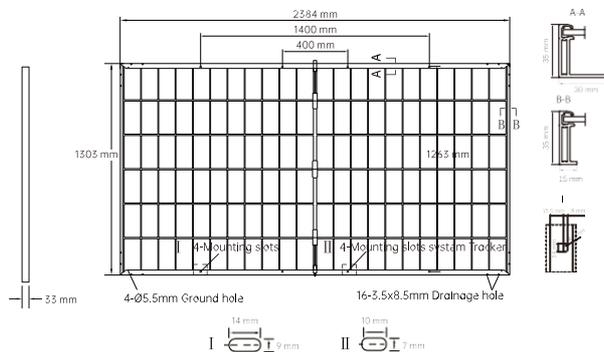
■ Qualifications and Certificates

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



MECHANICAL SPECIFICATIONS

Dimension	2384x1303x33mm (93.85x51.30x1.30 in)
Weight	37.9kg
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	N-Type Monocrystalline
Junction Box	Protection class IP67, with bypass diodes
Cable	4mm ² Solar Cable, (+)≤13.7 in (350 mm) (-)≤11.0 in (280 mm)
Connector	MC 4 or MC 4 Compatible; -IP68



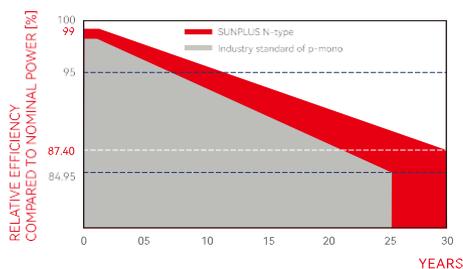
Drawing not to scale

Electrical Characteristics

POWER CLASS		695	700	705	710	715	720	
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC (POWER ¹ TOLERANCE +5W / -0W)								
Minimum	Power at MPP ¹	P _{MPP} [W]	695	700	705	710	715	720
	Short Circuit Current ¹	I _{SC} [A]	18.33	18.38	18.43	18.48	18.53	18.58
	Open Circuit Voltage ¹	V _{OC} [V]	48.17	48.37	48.57	48.77	48.97	49.17
	Current at MPP	I _{MPP} [A]	17.38	17.44	17.49	17.54	17.59	17.64
	Voltage at MPP	V _{MPP} [V]	39.98	40.15	40.31	40.48	40.65	40.81
	Efficiency ¹	η [%]	≥22.4	≥22.5	≥22.7	≥22.7	≥23.0	≥23.2
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS BSTC*								
Minimum	Power at MPP	P _{MPP} [W]	764	770	775	781	786	792
	Short Circuit Current	I _{SC} [A]	20.27	20.33	20.39	20.45	20.50	20.56
	Open Circuit Voltage	V _{OC} [V]	48.17	48.37	48.57	48.77	48.97	49.17
	Current at MPP	I _{MPP} [A]	19.12	19.18	19.23	19.29	19.35	19.40
	Voltage at MPP	V _{MPP} [V]	39.99	40.15	40.32	40.48	40.65	40.82
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS NMOT ²								
Minimum	Power at MPP	P _{MPP} [W]	531	534	540	543	547	551
	Short Circuit Current	I _{SC} [A]	14.72	14.76	14.80	14.83	14.86	14.90
	Open Circuit Voltage	V _{OC} [V]	45.90	46.10	46.30	46.50	46.70	46.90
	Current at MPP	I _{MPP} [A]	14.00	14.04	14.08	14.12	14.14	14.19
	Voltage at MPP	V _{MPP} [V]	37.90	38.00	38.30	38.50	38.70	38.80

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 BSTC: 1000 W/m² + φ × 135 W/m², φ = 80 %, 25 ± 2 °C, AM 1.5 according to IEC 60904-3

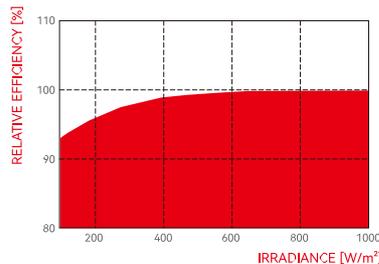
MODULE PERFORMANCE WARRANTY



At least 99 % of nominal power during first year. Thereafter max. 0.4% degradation per year. At least 95 % of nominal power up to 10 years. At least 87.40 % 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]	-0.26
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}	1000/1500VDC (IEC)	PV module classification	Class II
Maximum Reverse Current	I _r	35A	Fire Rating based UL61730	Type 29
Max. Design Load, Push / Pull		5400 / 2400	Permitted Module Temperature	-40~+85°C
Max. Test Load, Push / Pull		8100 / 4000	on Continuous Duty	

SUNPLUS OPTIMUM, INC.

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