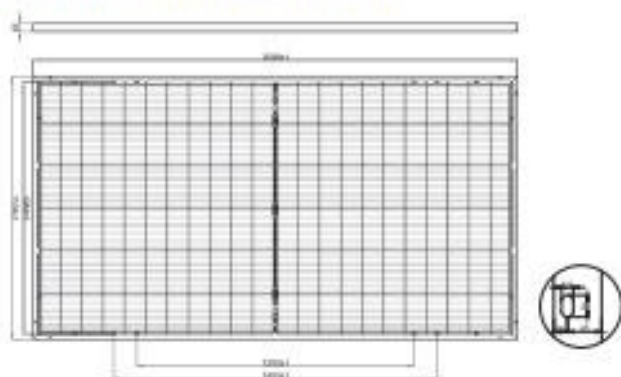


P-PERC M10 500W

Specialized products for convergence and adoption
The 500W output makes it easy to configure the array in your design.

Mechanical Specifications



Size (High Durability)	2098 x 1134 x 35mm
Weight	Approximately 26.8kg
Solar Cell	PERC double-sided single crystal, (182 x 91mm) 132Cell
Front	3.2mm high transmittance tempered glass (anti-reflective coating)
Back	Transparent backsheet
Frame	Anodized aluminum alloy
Junction Box	IP68, 3 bypass diodes
Cable	4mm ² Solar cable, 1200mm
Connector	MC4 compatible

Electrical Specifications

Items		SS-CM500 BD		SS-CM505BD	
		STC ¹	BNPF ²	STC ¹	BNPF ²
Maximum Power Point Power (P _{MP})	(W)	500	524.17	505	529.18
Open-Circuit Voltage (V _{OC})	(V)	45.53	45.68	45.66	45.82
Short-Circuit Current (I _{SC})	(A)	13.90	14.60	13.98	14.68
Maximum Power Point Voltage (V _{MP})	(V)	38.53	38.53	38.66	38.66
Maximum Power Point Current (I _{MP})	(A)	12.99	13.61	13.07	13.69
Efficiency (Eff)	(%)	21.02	22.03	21.23	22.24

STC¹: Irradiance 1,000W/m², Module Temperature 25°C, AM=1.5 (IEC 60904), Measurement Tolerance: ±3%

BNPF²: Irradiance 1,000W/m² + φ x 135W/m², Module Temperature 25°C, AM=1.5 (IEC 60904-1-2), Bifacial Generation may vary depending on the surrounding environment (albedo).

System Design Specifications

Maximum System Voltage	1500V	Rated Serial Fuse	30A
Maximum Test Load	5400 / 2400Pa	Module Operating Temperature	-40~+85 °C
Light Reflectance (Visible Spectrum)	4.70% (3.65%)	LID / PID TEST	Complete
Fire Safety Classification	Class "C"		

Performance Guarantee

Product Warranty	12 years product warranty
Performance Warranty	98% output guaranteed for 1 year 85% of output guaranteed for 2 to 25 years Up to 0.54% degradation per year

Temperature Coefficients

Short-Circuit Current (I _{SC}) [α]	0.06 % / °C	Open-Circuit Voltage (V _{OC}) [β]	-0.30 % / °C
Maximum Power Point Power (P _{MP}) [γ]	-0.39 % / °C	Nominal Operating Cell Temperature (NOCT)	45±3 °C

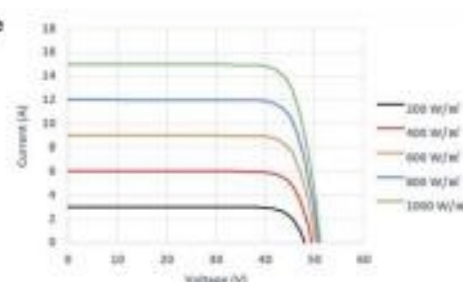
Packaging Specifications

Packaging Size	2120 x 1154 x 1110mm	Vehicle Loading (Pallets / Loading Capacity)	
Packaging Weight	700kg	5-ton truck (Long axis)	14 pallets / 350 sheets
Pallets	25 sheets	11-ton truck	16 pallets / 400 sheets
Vehicle Loading	2-stage horizontal loading	18-ton truck	18 pallets / 450 sheets

- Note**
- This product must be installed according to Shinsung E&G's official installation manual.
 - For information regarding the official installation manual, please contact Shinsung E&G.
 - The data in this specification sheet is subject to change without prior notice.
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I-V Curve



If you have any inquiries about Shinsung E&G, please contact us at the following address: ● AS inquiry 063-543-7811

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