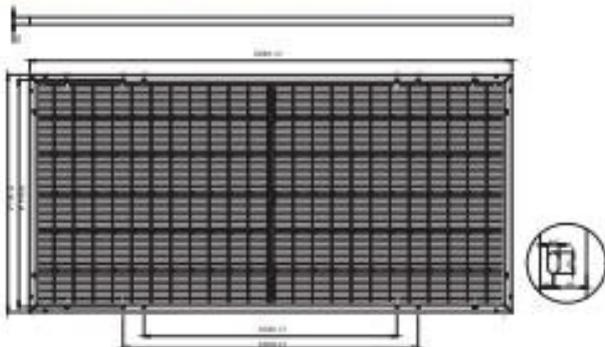


# P-PERC M10 540W ~ 555W

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

## Mechanical Specifications



Size	2290 x 1134 x 35mm
Weight	Approximately 28.9kg
Solar Cell	PERC double-sided single crystal, (182 x 91mm) 144Cell
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 <sup>2</sup> Solar cable, 1200mm
Connector	MC4 compatible

## Electrical Specifications

Items	SS-DM540BD/BL		SS-DM545BD/BL		SS-DM550BD/BL		SS-DM555BD/BL	
	STC <sup>1</sup>	BNPP <sup>2</sup>						
Maximum Power Point Power (P <sub>MPP</sub> ) (W)	540	565.81	545	571.19	550	576.65	555	582.07
Open-Circuit Voltage (V <sub>OC</sub> ) (V)	49.38	49.55	49.52	49.69	49.67	49.84	49.81	49.98
Short-Circuit Current (I <sub>SC</sub> ) (A)	13.85	14.54	13.91	14.61	13.95	14.65	13.99	14.69
Maximum Power Point Voltage (V <sub>MPP</sub> ) (V)	40.96	40.96	41.10	41.10	41.24	41.24	41.38	41.38
Maximum Power Point Current (I <sub>MPP</sub> ) (A)	13.19	13.82	13.27	13.90	13.35	13.98	13.43	14.07
Efficiency (Eff) (%)	20.79	21.79	20.99	22.00	21.18	22.21	21.37	22.41

STC<sup>1</sup>: Irradiance 1,000W/m<sup>2</sup>, Module Temperature 25°C, AM=1.5 (IEC 60904), Measurement Tolerance: ±3%

BNPP<sup>2</sup>: Irradiance 1,000W/m<sup>2</sup> + φ x 135W/m<sup>2</sup>, 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 / 2400 Pa	Module Operating Temperature	-40~+85 °C
Light Reflectance (Visible Spectrum)	4.72% (3.82%)	LID / PID TEST	Complete
Fire Safety Classification	Class "C"		

## Performance Guarantee

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

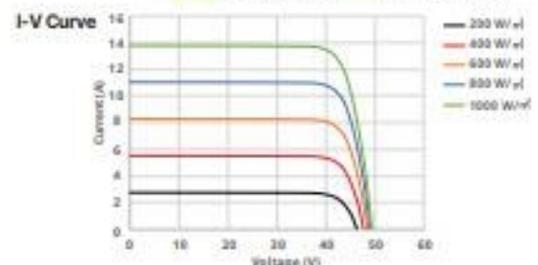
## Temperature Coefficients

Short-Circuit Current (I <sub>SC</sub> ) [α]	0.06 % / °C	Open-Circuit Voltage (V <sub>OC</sub> ) [β]	-0.30 % / °C
Maximum Power Point Power (P <sub>MPP</sub> ) [γ]	-0.42 % / °C	Nominal Operating Cell Temperature (NOCT)	45±3 °C

## Packaging Specifications

Packaging Size	2310 x 1150 x 1110mm	Vehicle Loading(Pallets / Loading Capacity)	
Packaging Weight	753kg	5-ton truck (Long axis)	12 pallets / 300 sheets
Pallets	25 sheets	11-ton truck	14 pallets / 350 sheets
Vehicle Loading	2-stage horizontal loading	18-ton truck	16 pallets / 400 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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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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