

EP-540-555-BMA-BG



SIV SERIES

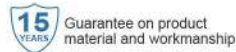
Small Changes, Big Accomplishments

540-555W



- Less mismatch to get more power
- Less power loss by minimizing the shading impact
- Competitive low light performance
- 3 times EL test to ensure best quality
- Ideal choice for utility and commercial scale projects by reduced BoS and improved ROI

- Outstanding reliability proven by PVEL for stringent environment condition:
 - Sand, acid, salt, and hail stones
 - 2400 Pa wind load and 5400 Pa snow load
 - Anti-PID



Electrical Characteristics

	EP-540-BMA-BG			EP-545-BMA-BG			EP-550-BMA-BG			EP-555-BMA-BG		
	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC
Maximum Power at STC (Pmp)	540	406	378	545	409	382	550	414	385	555	418	389
Open Circuit Voltage (Voc)	49.50	46.18	49.48	49.60	46.32	49.58	49.70	46.40	49.68	49.80	46.50	49.78
Short Circuit Current (Isc)	13.81	11.16	9.74	13.90	11.23	9.80	14.00	11.32	9.87	14.10	11.41	9.94
Maximum Power Voltage (Vmp)	41.55	38.39	41.61	41.80	38.41	41.86	42.05	38.58	42.10	42.31	38.68	42.34
Maximum Power Current (Imp)	13.00	10.59	9.09	13.04	10.65	9.13	13.08	10.73	9.15	13.12	10.81	9.19
Module Efficiency at STC(ηm)	20.90			21.10			21.29			21.48		
Power Tolerance	(0, +4.99)											
Maximum System Voltage	1500V DC											
Maximum Series Fuse Rating	25 A											

STC: Irradiance 1000 W/m² module temperature 25°C AM=1.5
 Power measurement tolerance: +/-3%

Rear Side Power Gain(EP-540-BMA-BG)

Power Gain	10%	15%	20%	25%	30%
Maximum Power -Pmp (W)	594	621	648	675	702
Open Circuit Voltage -Voc (V)	49.5	49.5	49.5	49.5	49.5
Short Circuit Current -Isc (A)	15.19	15.88	16.57	17.26	17.95
Maximum Power Voltage -Vmp (V)	41.6	41.6	41.6	41.6	41.6
Maximum Power Current -Imp (A)	14.30	14.95	15.60	16.25	16.90

Temperature Characteristics

Pmax Temperature Coefficient	-0.34%/°C
Voc Temperature Coefficient	-0.26%/°C
Isc Temperature Coefficient	+0.05%/°C
Operating Temperature	-40~+85%°C
Nominal Operating Cell Temperature (NOCT)	45±2 C

Mechanical Specifications

External Dimensions	2278 x 1134 x 30 mm
Weight	32.0kg
Solar Cells	PERC Mono(144pcs)
Front Glass	2.0mm AR coating semi-tempered glass, low iron
Frame	Anodized aluminium alloy
Junction Box	IP68, 3 diodes
Output Cable	4.0mm ² , 250mm(+)/350mm(-) or Customized Length
Mechanical Load	Front side 5400Pa/ Back side 2400Pa

Packing Configuration

Container	40'HQ
Pieces per Pallet	36
Pallets per Container	20
Pieces per Container	720

