

EMMVEE IS INDIA'S FIRST INTEGRATED SOLAR SOLUTIONS COMPANY, WITH 30 YEARS OF EXPERTISE IN DEVISING HIGHLY INNOVATIVE AND EFFICIENT SOLAR POWER SOLUTIONS, FROM SOLAR WATER HEATING SYSTEMS TO PHOTOVOLTAIC MODULES AND SOLAR WATER PUMPS.

Since our inception in 1992, we have dedicated ourselves to developing smart and innovative solar energy solutions using cutting edge technology. As always, our promise is to maintain enviable standards of excellent quality, timely delivery and reliable support to our customers as they explore and adopt environmentally friendly solar power solutions.

Today, we are proud of our robust presence in some of the most pioneering green energy projects across India and Europe. Our path-breaking photovoltaic modules have provided valuable and sustainable alternative power solutions in the field for over 15 years, and we continue to innovate with our new range of higher WP modules that combine exceptional quality and unbeatable efficiency.

Our goal is simple: to provide clean and reliable energy that saves our natural resources and reduces our carbon footprint, while ensuring that our diverse range of domestic and commercial solar power-related products and services always keep the needs of our customers at the forefront.

FEATURES



AR COATED HIGH TRANSMISSION GLASS



MC4 COMPATIBLE CONNECTORS



PID RESISTANCE



ANODISED
ALUMINIUM FRAME



MECHANICAL LOAD OF 5400 Pa

BENEFITS



LOW LCOE, FASTER PAYBACK PERIOD



30% MORE POWER BEST IN CLASS EFFICIENCY UPTO 22.5%



MULTI-BUS BAR TECHNOLOGY FOR BETTER CURRENT COLLECTION



LOWEST GUARANTEED FIRST YEAR AND ANNUAL DEGRADATION



WELL-COMPOSED
COMPONENTS
STRESS TO REDUCE

TECHNICAL SPECIFICATION144 CUT CELL N-TYPE TOPCON MODULE

Electrical data at 1000W/m², 25°C and A.M 1.5 (STC in accordance with IEC 60904-3)

MODEL NAME	E560HCBG144-T	E565HCBG144-T	E570HCBG144-T	E575HCBG144-T	E580HCBG144-T
RATED POWER AT STC	560	565	570	575	580
POWER TOLERANCE	+5W	+5W	+5W	+5W	+5W
MODULE EFFICIENCE AT STC	21.68%	21.87%	22.07%	22.26%	22.45%
OPEN CIRCUIT VOLTAGE - VOC(VOLTS) (±10%)	50.67	50.87	51.07	51.27	51.47
SHORT CIRCUIT CURRENT - ISC (AMPS) (±10%)	14.13	14.19	14.25	14.31	14.37
MAX POWER VOLTAGE - VPM (VOLTS)	41.95	42.14	42.29	42.44	42.59
MAX POWER CURRENT - IPM (AMPS)	13.35	13.41	13.48	13.55	13.62

MODEL NAME	E585HCBG144-T	E590HCBG144-T	E595HCBG144-T	E600HCBG144-T
RATED POWER AT STC	585	590	595	600
POWER TOLERANCE	+5W	+5W	+5W	+5W
MODULE EFFICIENCE AT STC	22.66%	22.84%	23.04%	23.24%
OPEN CIRCUIT VOLTAGE - VOC(VOLTS) (±10%)	51.552	51.696	51.84	51.984
SHORT CIRCUIT CURRENT - ISC (AMPS) (±10%)	14.51	14.60	14.68	14.76
MAX POWER VOLTAGE - VPM (VOLTS)	42.768	42.85	42.98	43.12
MAX POWER CURRENT - IPM (AMPS)	13.69	13.77	13.85	13.92

AT LOW IRRADIANCE (200W/M², 25°C AND AM1.5) THE MODULE YIELDS AT LEAST 95% OF THE STC EFFICIENCY.

TEMP. COEFFICIENT OPEN-CIRCUIT VOLTAGE	-0.25%/°C
TEMP. COEFFICIENT SHORT CIRRCUIT CURRENT	0.045%/°C
TEMP. COEFFICIENT RATED POWER	-0.29%/℃
NOCT (NORMAL OPERATING CELL TEMPERATURE)	45°C±2°C

Mechanical data

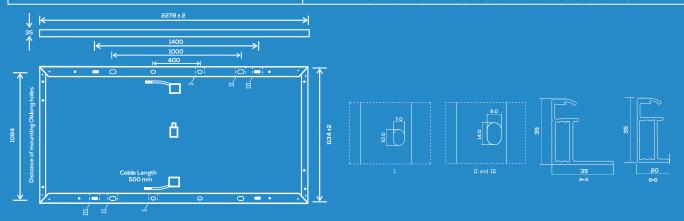
NUMBER OF CELLS AND CELL TYPE	144 TOPCON SOLAR CELLS (182mm X 91mm)
DIMENSIONS (L X W X H)	2278 mm X 1134 mm X 35 mm
WEIGHT	32 kg
FRONT GLASS	2 mm HIGH TRANSMISSION, SOLAR GLASS
EMBEDDING	EVA/POE
BACK GLASS	2 mm HIGH TRANSMISSION, SOLAR GLASS
JUNCTION BOX	3 SPLIT JUNCTION BOX IP68
NUMBER OF BYPASS DIODES	3
CABLES	4mm² SOLAR CABLES, LENGTH 500 ± 10mm
BIFACIALITY FACTOR	80±5%

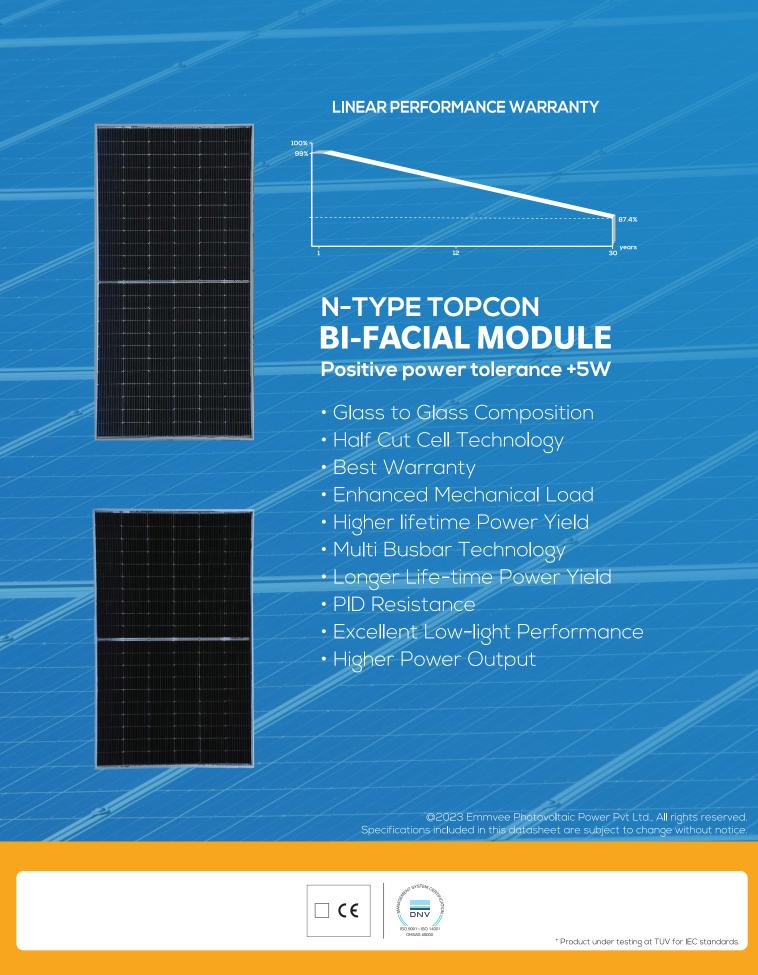
Permissible operating conditions

OPERATING TEMPERATURE RANGE	-40°C TO 85°C
MAX. SYSTEM VOLTAGE	1500V DC
MAXIMUM SNOW LOAD CAPACITY	5400PA
RESISTANCE AGAINST HAIL	MAX Ø24 MM WITH IMPACT SPEED OF 83KM/H
PROTECTION CLASS AGAINST ELECTRICAL SHOCK	II .
MAXIMUM REVERSE CURRENT	30 A

Warranty

PRODU	JCT WARRANTY	12 YEARS
PERFC	RMANCE WARRANTY	30 YEARS
ANNU	AL DEGRADATION	1ST YEAR DEGRADATION 1%, FROM 2ND YEAR 0.40% ANNUAL
		DEGRADATION AND 87.40% AT THE END OF 30 YEARS.





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