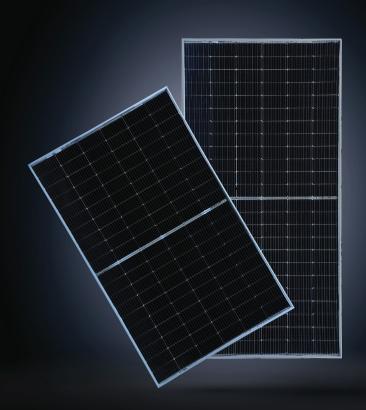




PEARL A POWER-PACKED SOLAR SOLUTION

DESIGNED TO DELIVER MAXIMUM POWER OUTPUT





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













TECHNICAL SPECIFICATION144 CUT CELL MONO-FACIAL MODULE

Electrical data at 1000W/m², 25°C and A.	M 1.5 (STC in	accordance v	with IEC 6090	04-3)

MODEL NAME	E530HCMW144	E535HCMW144	E540HCMW144	E545HCMW144
RATED POWER AT STC	530	535	540	545
POWER TOLERANCE	+5W	+5W	+5W	+5W
MODULE EFFICIENCE AT STC	20.52%	20.71%	20.90%	21.10%
OPEN CIRCUIT VOLTAGE - VOC(VOLTS) (±10%)	49.2	49.35	49.5	49.75
SHORT CIRCUIT CURRENT - ISC (AMPS) (±10%)	13.56	13.59	13.62	13.88
MAX POWER VOLTAGE - VPM (VOLTS)	41.1	41.32	41.54	41.61
MAX POWER CURRENT - IPM (AMPS)	12.9	12.95	13	13.1
AT LOW IRRADIANCE (200W/M², 25°C AND AM1.5) THE MODULE YIELDS AT LEAST 95% OF THE STC EFFICIENCY.				

Thermal data

TEMP. COEFFICIENT OPEN-CIRCUIT VOLTAGE	-0.28%/°C
TEMP. COEFFICIENT SHORT CIRRCUIT CURRENT	0.05%/°C
TEMP. COEFFICIENT RATED POWER	-0.35%/°C
NOCT (NORMAL OPERATING CELL TEMPERATURE)	45°C±2°C

Mechanical data

144 MONOFACIAL SOLAR CELLS (182 mm X 91 mm)	
2278 mm X 1134 mm X 35 mm	
26 Kg	
3.2 mm HIGH TRANSMISSION, SOLAR GLASS	
EVA	
COMPOSITE FILM, WHITE	
3 SPLIT JUNCTION BOX IP68	
3	
4 mm² SOLAR CABLES, LENGTH 500 ± 10mm	
MC4 COMPATIBLE	

Permissible operating conditions

OPERATING TEMPERATURE RANGE	-40°C TO 60°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	25 A

Warranty

PRODUCT WARRANTY	12 YEARS
PERFORMANCE WARRANTY	25 YEARS
ANNUAL DEGRADATION	IST YEAR DEGRADATION, 2%, FROM 2ND YEAR 0.55% ANNUAL DEGRADATION AND 84.80% AT THE END OF 25 YEARS.

