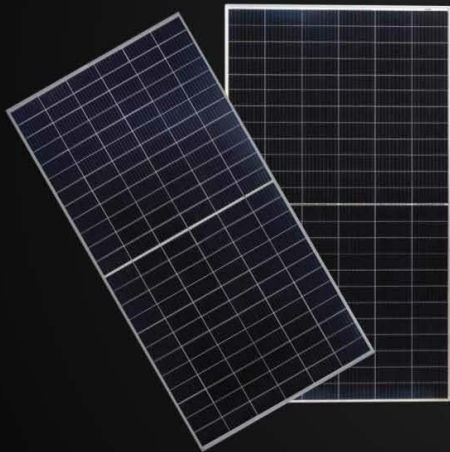




YOUR RELIABLE
PARTNER FOR
SOLAR ENERGY
SINCE 1992

A MULTI - FACETED SOLAR SOLUTION

COMBATS HARSH WEATHER CONDITIONS LIKE A PRO!



EMMVEE 1500 DC PV MODULE

Emmvee is an intelligent solar solutions producer born from an idea to implement green energy to better use. We aim at providing universally designed products to support all kinds of contemporary and lavish living. Amidst our industrial product range, Photovoltaics and Solar Water Heating Systems have been our strongest since inception in 1992.

WORRIED ABOUT THE SUSTAINABILITY OF YOUR SOLAR MODULES IN THE EXTREME HARSH WEATHER CONDITIONS?

Emmvee Solar Photovoltaic Modules are the best for On-Grid solar power plants. Our modules are built to withstand extreme harsh weather conditions and sustain for more than 25 years. The rigid performance and safety measures adopted by our products are one of its kind. These modules are carved into perfection with our state-of-the-art machinery and premium materials sourced from across the world.

BENEFITS



CAPABLE OF
BEARING HIGH SNOW
LOAD AND WIND



EXCELLENT CURRENT
DISTRIBUTION
PERFORMANCE



FLEXIBILITY
IN INVERTER
SELECTION



RESISTS CORROSION
OF THE FRAME
ENSURING LONG LIFE



NO DEGRADATION
OF ELECTRICAL POWER,
HENCE SAFER

FEATURES



AR COATED HIGH
TRANSMISSION
GLASS



MC4
COMPATIBLE
CONNECTORS



PID
RESISTANCE



ANODISED
ALUMINIUM
FRAME



MECHANICAL
LOAD
OF 5400 Pa

TECHNICAL SPECIFICATION

144 CUT CELL BI-FACIAL MODULE

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

MODEL NAME	E530HCBG144	E535HCBG144	E540HCBG144
RATED POWER AT STC	530	535	540
POWER TOLERANCE	+5W	+5W	+5W
MODULE EFFICIENCY AT STC	20.52%	20.71%	20.90%
OPEN CIRCUIT VOLTAGE - VOC(VOLTS) (±10%)	49.2	49.35	49.5
SHORT CIRCUIT CURRENT - ISC (AMPS) (±10%)	13.56	13.59	13.62
MAX POWER VOLTAGE - VPM (VOLTS)	41.1	41.32	41.54
MAX POWER CURRENT - IPM (AMPS)	12.9	12.95	13
AT LOW IRRADIANCE (200W/M ² , 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 CIRCUIT CURRENT	0.05%/°C
TEMP. COEFFICIENT RATED POWER	-0.35%/°C
NOCT (NORMAL OPERATING CELL TEMPERATURE)	45°C ± 2°C

Mechanical data

NUMBER OF CELLS AND CELL TYPE	144 BI-FACIAL SOLAR CELLS (182mm X 91mm)
DIMENSIONS (L X W X H)	2278 mm X 1134 mm X 35 mm
WEIGHT	30 Kg
FRONT GLASS	2 mm HIGH TRANSMISSION, SOLAR GALSS
EMBEDDING	TOP EVA, BOTTOM POE
BACK SHEET	2 mm HIGH TRANSMISSION, SOLAR GALSS
JUNCTION BOX	3 SPLIT JUNCTION BOX IP68
NUMBER OF BYPASS DIODES	3
CABLES	4mm ² SOLAR CABLES, LENGTH 500 ± 10mm
CONNECTORS	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	30 A
BIFACIALITY	70 ± 5%

Warranty

PRODUCT WARRANTY	12 YEARS
PERFORMANCE WARRANTY	30 YEARS
ANNUAL DEGRADATION	1ST YEAR DEGRADATION, 2%, FROM 2ND YEAR 0.45% ANNUAL DEGRADATION AND 85% AT THE END OF 30 YEARS.

