



YOUR RELIABLE
PARTNER FOR
SOLAR ENERGY
SINCE 1992



HIGHER ENERGY OUTPUT

THROUGH LOWER CELL RESISTANCE!

EMMVEE 144 HALF CUT CELL MONO PERC

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.

Introducing our most advanced half-cut cell technology, which increases module efficiency up to 20.5% compared to other standard Photovoltaic modules. Emmvee 144 Half Cut Cell Mono Perc module has a higher energy yield and a higher efficiency.

FEATURES



ENHANCED PERFORMANCE DUE TO
REDUCED INTERNAL RESISTANCE



RESISTANT AGAINST SALT, MIST, AMMONIA,
DUST & HAIL



GOOD TEMPERATURE EFFICIENCY ENABLES
BETTER OUTPUT IN HIGH-TEMPERATURE
REGIONS



HIGHER EFFICIENCY



EXCELLENT CURRENT DISTRIBUTION
PERFORMANCE REDUCES POWER LOSS

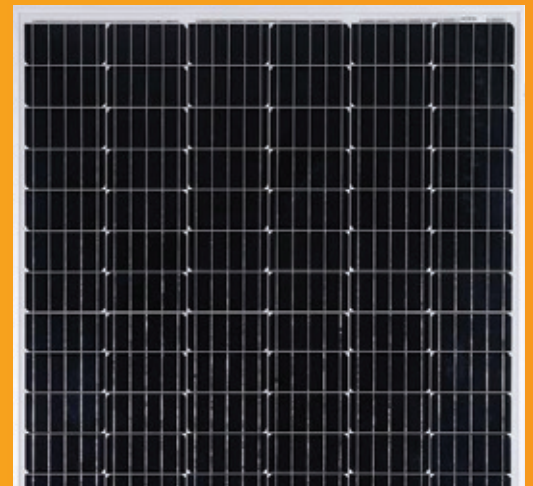
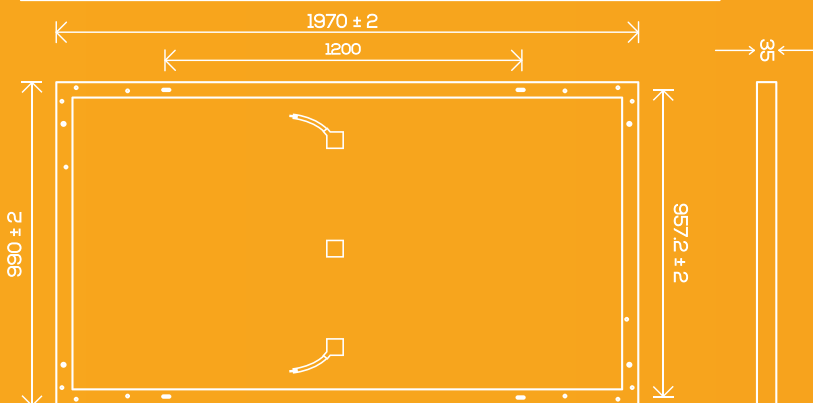


EXCELLENT PERFORMANCE UNDER WEAK
LIGHT CONDITIONS



HALF CELL GENERATES ONLY HALF OF THE
CURRENT, LOWERING HEAT PRODUCTION
AND LESS HOTSPOT INCREASING MODULE
RELIABILITY

TECHNICAL DRAWING



SPECIFICATION

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

MODEL NAME	E400HCM144
RATED POWER AT STC (W)	400 Wp
MODULE EFFICIENCY AT STC	20.50%
OPEN CIRCUIT VOLTAGE (V _{oc})	49.44 V
SHORT CIRCUIT CURRENT (I _{sc})	10.86 A
MAX POWER VOLTAGE (V _{pm})	40.36 V
MAX POWER CURRENT (I _{pm})	9.92 A

Thermal data

TEMPERATURE COEFFICIENT OPEN CIRCUIT VOLTAGE	-0.29% / °K
TEMPERATURE COEFFICIENT SHORT CIRCUIT CURRENT	+0.05% / °K
TEMPERATURE COEFFICIENT RATED POWER	-0.39% / °K
NOCT (NORMAL OPERATING CELL TEMPERATURE)	44°C ± 2°C

Mechanical data

NUMBER OF CELLS & CELL TYPE	144 MONO PERC SOLAR 156.75 mm X 78.375 mm (5BB)
MODULE DIMENSIONS (L X W X H)	1970 mm X 990 mm X 35 mm
WEIGHT	22 Kg
FRONT GLASS	3.2 mm HIGH TRANSMISSION, TEMPERED GLASS
ENCAPSULATION	EVA
BACK SHEET	COMPOSITE FILM, WHITE
JUNCTION BOX	3 SPLIT JUNCTION BOX, IP 68
NUMBER OF BYPASS DIODES	3
CONNECTORS	MC4 COMPATIBLE

Permissible operating conditions

OPERATING TEMPERATURE RANGE	-40°C TO 85°C
MAX SYSTEM VOLTAGE	1500 V DC
MAX REVERSE CURRENT	20 A
MAX SURFACE LOAD CAPACITY	5400 Pa
PROTECTION CLASS	II

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(An ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007 Certified Company)



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