



# AC SOLAR MODULE

W I T H   L O T S   O F   B E N E F I T S



- **Easy to Install**
- **Efficient and Reliable**
- **Smart Grid Ready**

IN BUILT WITH

 **ENPHASE.**

MICROINVERTER

# THE SOLAR PIONEER

We at Emmvee have played a key role in boosting solar solutions in India. With our expertise and over 25 years of producing solar water heating solutions and photovoltaic modules, we are the preferred partners for several industry leaders and solar power projects globally. We understand our consumers and constantly innovate to deliver solutions that meet their needs. Which is why we have introduced a solar panel that produces AC electricity directly and launched for the first time in India, Emmvee AC Solar Module.

## EMMVEE AC SOLAR MODULE

Instead of connecting solar modules to a standalone inverter, opt for the AC Solar Module with inbuilt inverter to enjoy uninterrupted power.

**Completely reliable for its performance and quality, Emmvee AC Solar Module offers several advantages:**



25 years warranty on module and 10 years on inverter



More efficient and therefore produces more electricity



Proprietary Burst technology\* to produce more energy during dawn, dusk and low light conditions



Robust - built for the world



Ideal for homes, hospitals, schools and offices where safety is of paramount importance as there would be no high voltage setup on top of the building



Easily scalable to meet growing needs – just plug in more modules



Easy installation



Safe because it handles low voltage at the module level

\* Proprietary technology owned by ENPHASE Inc.



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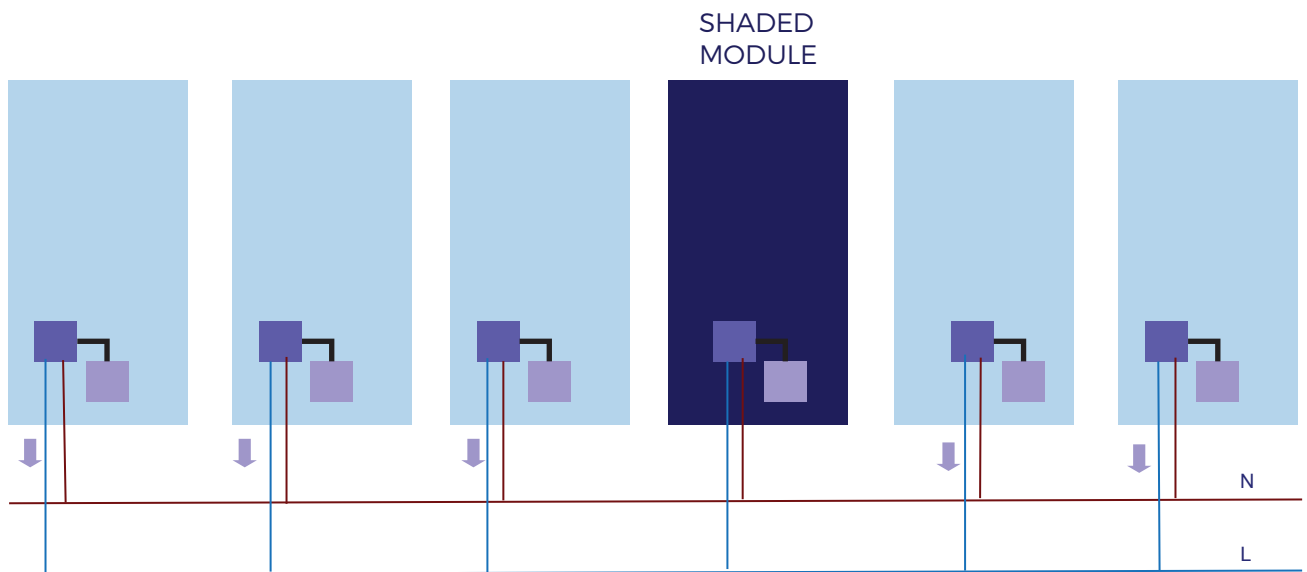
AC Module  
Front view



AC Module  
Back view

## ASSURED PERFORMANCE

Each EMMVEE AC module operates independently. Even if a few become dirty or are in shade, it won't affect the performance of the other modules and this means more energy is harvested per kW of sunshine. The AC module can be connected to a SCADA system and the performance of each module can be monitored as well.



The greatest advantage of the AC solar module is that its performance is not affected by the shaded module's performance

# AC SOLAR MODULE - ES300AC

## DC Characteristics

Max. power*	325 Wp (0, +5 Wp)
Open circuit voltage (VOC)	45.8 V
Current at MPP (Im)	8.68 A
Voltage at MPP (Vm)	37.4 V
Short circuit current (Isc)	9.11
No. of cells	72
Type of cells	Multi crystalline

## AC Characteristics (output)

Peak output power (VA)	295
Nominal voltage / range (V)	230 / 184-276
Nominal frequency / range (Hz)	50
Max. continuous output power (VA)	290
Max. continuous output current (A)	1.26
Power factor (adjustable)	0.7 leading ... 0.7 lagging
Extended frequency range (Hz)	45-55
Overvoltage class AC port	III
AC port back fee current (A)	0
Max. units per 20 A (L-N) branch circuit	13 (230 VAC)

## Mechanical Data

Module weigh	22 kg
Ambient temperature range	-40°C to +65°C

\*STC

- This product, when exposed to sunlight, produces electrical voltage. Care must be taken to protect from electrical hazard. Only trained personnel must handle this product.
- This product is not suitable for artificial light concentration
- Do not disconnect the wire terminals under load
- Solar module conforms to: IEC 61215:2005  
IEC 61730:2005 IEC 61701:2007



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