



HAVELLS ENVIRO SOLAR PV MONO MODULE

2 X 72 Half Cut Cell Monofacial Module 545-560 Wp

KEY SALIENT FEATURES



High module conversion efficiency

Module efficiency up to 21.7% achieved through advanced cell technology and manufacturing process.



Compatible with mainstream trackers

The module design is highly compatible with power plant tracking systems, which offers a cost-effective solution for large power plants



Enhanced Mechanical Load

Certified to withstand extreme wind loads (2400 Pa) and snow loads (5400 Pa).



Low Light performance

Excellent performance in low light conditions



Withstand harsh environments

Reliable high quality that makes module resistant even to high temperatures, salt water and ammonia

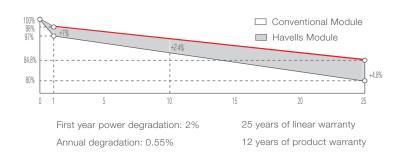


Current sorting process

Up to 2 % power loss caused by current mismatch could be diminished by current sorting technique to maximize system power output

LINEAR PERFORMANCE WARRANTY

- 98% in the first year; thereafter, for years two through twenty-five, 0.55% maximum decrease from MODULE'S nominal power output per year, ending with 84.8% in the 25th year after the defined WARRANTY STARTING DATE.
- Product Warranty is of 12 Years**
- 25-year linear performance warranty**



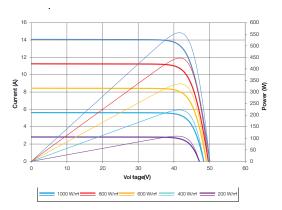
| Module Type | Unit of measure) | 560 | Wp | 555 | Wp | 550 | Wp | 545 | Wp |
|---------------------------|------------------|--------|-------|-------|-------|-------|-------|-------|-------|
| Testing Condition | (UOM) | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Panel Rating | Pmax | 560 | 425.2 | 555 | 421.4 | 550 | 417.7 | 545 | 414.2 |
| Optimum Operating Voltage | (Vmp/V) | 42.4 | 39.2 | 42.24 | 39 | 42.05 | 38.9 | 41.87 | 38.7 |
| Optimum Operating Current | (Imp/A) | 13.21 | 10.85 | 13.14 | 10.8 | 13.08 | 10.75 | 13.02 | 10.71 |
| Open Circuit Voltage | (Voc/V) | 50.23 | 47.4 | 50.07 | 47.2 | 49.88 | 47 | 49.69 | 46.9 |
| Short Circuit Current | (Isc/A) | 14.14 | 11.41 | 14.07 | 11.35 | 1 | 4.01 | 11.3 | 13.96 |
| Module Efficiency | (%) | 21 | .7 | 2 | 1.5 | 21 | 1.3 | 21 | 1.1 |
| Power Tolerance | Wp | 0/+5 W | | | | | | | |

STC: Irradiance 1000 W/m2, module temperature 25 °C, AM=1.5.

NMOT: Irradiance 800 W/m2, ambient temperature 20 °C, AM=1.5, wind speed 1 m/s; Tolerance of Pmax is within +/- 3%.

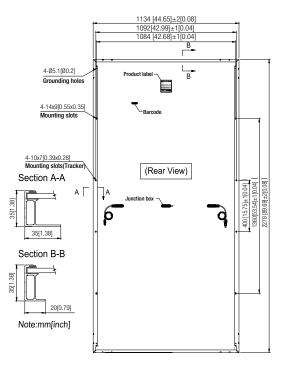
TEMPERATURE CHARACTERISTICS

| Nominal Module Operating Temperature (NMOT) | (°C) | 42 ± 2 |
|--|--------|--------------|
| Temperature Coefficient | (Voc) | -0.26 % / °C |
| Temperature Coefficient | (Isc) | 0.050 % / °C |
| Temperature Coefficient | (Pmax) | -0.34 % / °C |



MECHANICAL CHARACTERISTICS

| Solar Cell | Monocrystalline silicon 182 mm | | | |
|------------------------------|---|--|--|--|
| No. of Cells | 144 (6 × 24) | | | |
| Dimensions | 2278 × 1134 × 30 mm (89.7 × 44.6 × 1.18 inches) | | | |
| Weight | 27.5 kgs (60.6 lbs.) | | | |
| Front Glass | 3.2 mm (0.126 inches) fully tempered glass | | | |
| Output Cables | 4.0 mm2, (-) 350 mm (+) 160 mm in length or customized length | | | |
| Junction Box | IP68 rated (3 bypass diodes) | | | |
| Operating Module Temperature | -40 °C to +85 °C | | | |
| Maximum System Voltage | 1500 V DC (IEC) | | | |
| Connectors | MC4 connectors | | | |
| Maximum Series Fuse Rating | 25 A | | | |
| Frame | Anodized aluminum alloy frame | | | |
| Packing Configuration | 36 Pieces per pallet, 720 Pieces per container /40'HC, 2310×1120×1255 1040kg | | | |





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