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EMMVEE CRAFTING SMAR AND ADVANCED SOLAR ENERGY SOLUTIONS

PEARL Monoperc Half Cut Module



Committed to Quality, Punctuality, and Customer Support since 1992.







Over 15 Years of Sustainable Power with Photovoltaic Modules, New High WP Modules United with Quality and Efficiency

Our Mission: Delivering Clean, Reliable Energy while Reducing Carbon Footprint through wide range of Residential and Commercial Solar Offerings.

120 HALF CUT CELL MONOPERC MONO-FACIAL MODULE TECHNICAL SPECIFICATION

Electrical data at 1000W/m², 25°C and A.M1.5 (STC in accordance with IEC 60904-3)

| Model Name | E440HCMW120 | E445HCMW120 | E450HCMW120 |
|---|-------------|-------------|-------------|
| Rated Power at STC | 440 | 445 | 450 |
| Power Tolerance | +5W | +5W | +5W |
| Model Efficience at STC | 20.28% | 20.51% | 20.74% |
| Open Circuit Voltage – VOC (Volts) (±10%) | 41.44 | 41.46 | 41.56 |
| Short Circuit Current – ISC (Amps) (±10%) | 13.55 | 13.75 | 13.81 |
| Max Power Voltage - VPM (Volts) | 34.21 | 34.28 | 34.31 |
| Max Power Current – IPM (Amps) | 12.87 | 12.99 | 13.12 |

At low irradiance (200W/M², 25°c and AM1.5) the module yields at least 95% of the STC efficiency.

Test uncertainty for Pmax ±3%

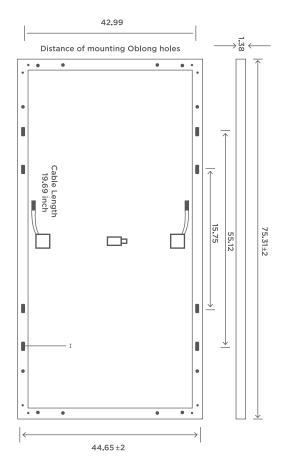
| Permissible Operating Conditions | | Thermal Data | |
|---|---------------------------------------|--|------------|
| Operating Temperature Range | -40° C TO 85° C | Temp. Coefficient Open-circuit Voltage | -0.28%/°C |
| Max.system Voltage | 1500V DC | Temp. Coefficient Short Circuit Current | 0.05%/°C |
| Maximum Snow Load Capacity | 5400PA | Temp. Coefficient Rated Power | -0.35%/°C |
| Resistance Against Hail | Max Ø24mm with Impact Speed of 51 Mph | NOCT (Normal operating cell temperature) | 45° C ±2°C |
| Protection Class Against Electrical Shock | Ш | | |
| Maximum Reverse Current | 25 A | | |

| Mechanical Data | |
|-------------------------------|--|
| Number of Cells and Cell Type | 120 Monoperc Monofacial Solar Cells (182mm X 91mm) |
| Dimensions: (L X W X H) | 75.31 inch X 44.65 inch X 1.38 inch |
| Weight | 52.91 pouds |
| Front Glass | 3.2 mm High Transmission, Solar Glass |
| Embedding | EVA |
| Back Sheet | Composite Film, White |
| Junction Box | 3 Split Junction Box IP68 |
| Number of Bypass Diodes | 3 |
| Cables | 4mm ² Solar Cables, Length 19.69±10inch |
| Connectors | MC4 Compatible / Staubli Option Available |
| Application Class | А |
| | |

| Warranty | |
|----------------------|--|
| Product Warranty | |
| Performance Warranty | |

12 years 25 years





FEATURES_____





AR Coated High Transmission Glass

MC4 Compatible Connectors



PID Resistance





Anodised Aluminium Frame

Snow Load Resistance upto 5400 Pa





Low LCOE, Faster Payback Period



Best In Class Efficiency upto 21.5%



Multi-Bus Bar Technology for Better Current Collection





Lowest We Guaranteed First Co Year and Annual Str Degradation Mic

Well-Composed Components Stress to Reduce Micro Cracks







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