

# DR10H450MB

DR Series – 450 W

120 cells  
MONO M10 HALF | PERC



**PERC monofacial technology**



**Anti-reflective glass**

Maximum efficiency and high performance



**Compact and sturdy frame**

Anchorable also on the short side <sup>(5)</sup>



**30 years**

Linear power warranty

**25 years**

Product warranty



**QBE Insurance**

QBE Product Liability Insurance

QBE is a global leader in the insurance sector, offering comprehensive solutions for business risk management. With a worldwide network, it protects clients against a wide range of risks and provides flexible insurance solutions tailored to various industries, including the energy sector.

## Electrical Characteristics (STC) <sup>(1)</sup>

|  |          |
|--|----------|
| Nominal Output (Pmax) <sup>(2)</sup>       | 450 W    |
| Sorting Tolerance                          | 0/+5 W   |
| Voltage at Pmax (Vmp)                      | 34,75 V  |
| Current at Pmax (Imp)                      | 12,95 A  |
| Open Circuit Voltage (Voc) <sup>(2)</sup>  | 40,98 V  |
| Short Circuit Current (Isc) <sup>(2)</sup> | 13,58 A  |
| Maximum System Voltage                     | 1500 V   |
| Maximum Series Fuse Rating                 | 25 A     |
| Module Efficiency                          | 20,82%   |
| Protection class against electric shock    | Class II |

1. STC: (Standard Test Condition) Irradiance 1000 W/m<sup>2</sup>; Module Temperature 25 °C; Air Mass 1.5  
 2. Pmax, Voc, Isc measurement tolerance: ±3%

## Mechanical Characteristics

|                           |   |
|---------------------------|---|
| Solar Cells               | 120 M10 HALF monocrystalline PERC             |
| Solar Cells Size          | 182 x 91 mm / 7,16 x 3,58"                    |
| Front Cover               | 3,2 mm / 0,13" thick, low iron tempered glass |
| Back Cover                | TPT (Tedlar-PET-Tedlar)                       |
| Encapsulant               | EVA (Ethylene vinyl acetate)                  |
| Frame                     | Anodized aluminium alloy, double wall         |
| Frame finishing           | Black   |
| Backsheet finishing       | Black   |
| Diodes                    | 3 Bypass diodes serviceable                   |
| Junction Box              | IP68 rated                                    |
| Connector                 | MC4 or compatible connector                   |
| Cables Length             | 1200 mm / 47,24"                              |
| Cables Section            | 4,0 mm <sup>2</sup> / 0,006 in <sup>2</sup>   |
| Dimensions                | 1906 x 1134 x 35 mm / 75,03 x 44,64 x 1,38"   |
| Weight                    | 24 kg / 52,9 lbs                              |
| Max Load (Test Load) - SF | 5400 Pa - 1,5 <sup>(5)</sup>                  |

5. Consult the installation manual for the relative mounting configurations

## Temperature Characteristics

|                                 |                 |
|---------------------------------|-----------------|
| NMOT <sup>(3)</sup>             | 43±2 °C         |
| Temperature Coefficient of Pmax | -0,29 %/°C      |
| Temperature Coefficient of Voc  | -0,25 %/°C      |
| Temperature Coefficient of Isc  | 0,046 %/°C      |
| Operating Temperature           | -40 °C ~ +85 °C |

3. NMOT: Nominal Module Operating Temperature: Irradiance 800 W/m<sup>2</sup>; Air 20 °C; Wind speed 1 m/s

## Packaging <sup>(4)</sup>

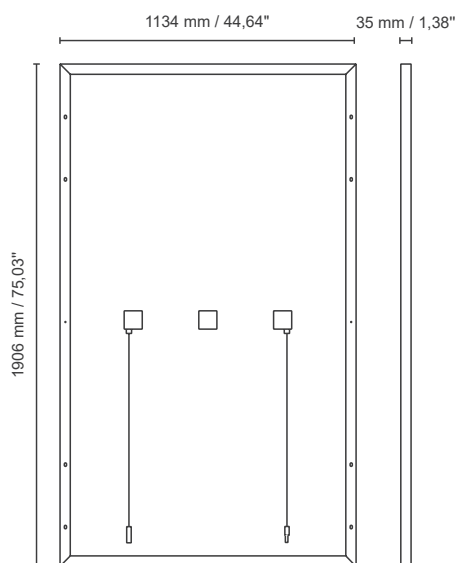
|                   |  |
|-------------------|--|
| Pallet dimensions | 1940 x 1130 x 1270 mm / 76,38 x 44,49 x 50,00" |
| Pieces per pallet | 31   |
| Weight            | 775 kg / 1708,58 lbs                           |

4. Pallets can be stacked up to two

## Certifications

|                         |          |
|-------------------------|----------|
| Fire Performance Rating | Type 4   |
| Product Certificate     | UL 61730 |

## Dimensions



## Current/Voltage Characteristics

