









More than 30 years of reliable experience

## Enjoy ISO FOTON's competitive advantages

-  More than 30 years manufacturing cells and solar modules
-  International experience in project development: More than 300 EPC projects around the world
-  After sales service
-  Cutting edge technology and certified quality
-  Commitment to sustainable development

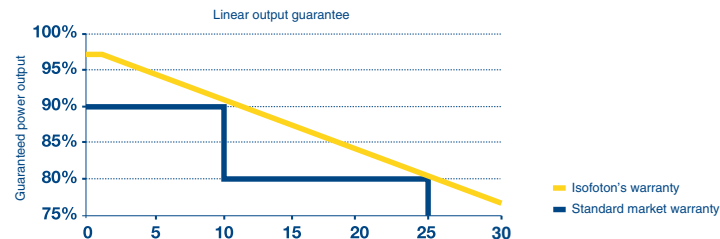
## Enjoy ISF modules' competitive advantages

-  Microstructured glass with greater capacity to absorb diffuse light, improving energy yield
-  Junction box designed to minimize electricity loss
-  Ultralight module

## ISO FOTON's warranty

**NEW!! 30** years of linear power warranty, 25 % better than the standard market warranty

**10** years of product warranty



## Module certifications



## Company certifications



On-going



More than 30 years of reliable experience

## ELECTRICAL CHARACTERISTICS

Performance at STC: Irradiance, 1.000 W/m<sup>2</sup>; cell temperature, 25° C (77° F); AM, 1.5

|                                    | ISF - 245 | ISF - 250 |
|------------------------------------|-----------|-----------|
| Rated Power (Pmax)                 | 245 W     | 250 W     |
| Open Circuit Voltage (Voc)         | 37,6 V    | 37,8 V    |
| Short-circuit Current (Isc)        | 8,63 A    | 8,75 A    |
| Maximum power point Voltage (Vmax) | 30,5 V    | 30,6 V    |
| Maximum power point Current (Imax) | 8,04 A    | 8,17 A    |
| Efficiency                         | 14,8 %    | 15,1 %    |
| Power tolerance (% Pmax)           | 0/+3 %    | 0/+3 %    |

Performance at Irradiance 800 W/m<sup>2</sup>, NOCT, ambient temperature 20° C (68° F), AM 1.5; wind speed 1 m/s

|                                    | ISF - 245 | ISF - 250 |
|------------------------------------|-----------|-----------|
| Maximum Power (Pmax)               | 178 W     | 181 W     |
| Open Circuit Voltage (Voc)         | 34,8 V    | 35,0 V    |
| Short-circuit Current (Isc)        | 6,96 A    | 7,06 A    |
| Maximum power point Voltage (Vmax) | 27,4 V    | 27,5 V    |
| Maximum power point Current (Imax) | 6,49 A    | 6,59 A    |

Efficiency reduction from 1.000 W/m<sup>2</sup> to 200 W/m<sup>2</sup> according to standard IEC 60904-1 5% (+/-3%)

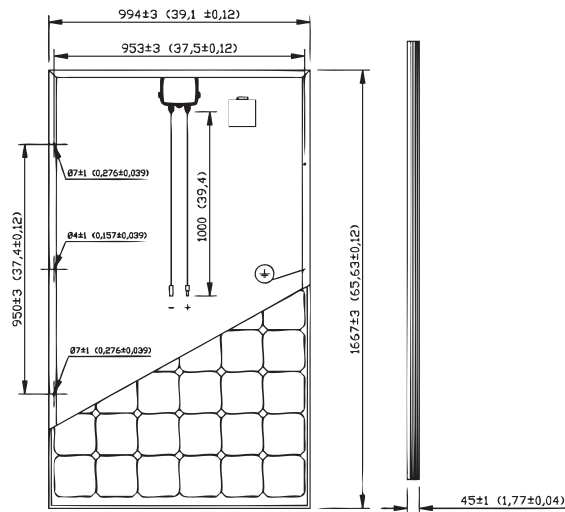
## OPERATIONAL CHARACTERISTICS

|   |                               |
|---|-------------------------------|
| Maximum System Voltage                    | 600 V (UL) / 1000 V (IEC)     |
| Series Fuse Rating                        | 20 A                          |
| Nominal Operating Cell Temperature (NOCT) | 47 +/- 2° C (116.6 +/- 3.5 F) |
| Operating Temperature                     | -40 to +85° C (-40 to 185 F)  |
| Temperature Coefficient of Pmax           | -0,44%/K                      |
| Temperature Coefficient of Voc            | -0,334%/K                     |
| Temperature Coefficient of Isc            | 0,048%/K                      |

## MECHANICAL CHARACTERISTICS

|                         |  |
|-------------------------|--|
| Solar Cell              | Monocrystalline Silicon - 156 mm x 156 mm (6 inches)               |
| Number of cells         | 60 cells (6x10)  |
| Dimensions              | 1667 x 994 x 45 mm (65.63 x 39.13 x 1.77 in)                       |
| Weight                  | 19 kg (41.89 pounds)   |
| Glass                   | High transmittance, patterned, tempered, 3,2 mm (EN-12150)         |
| Frame                   | Anodized aluminum, grounding drills                                |
| Maximum mechanical load | 5400 Pa (112.78 psf) (Snow load)                                   |
| Junction Box            | IP 65 with 3 bypass diodes   |
| Cables, plug            | Solar cable 1 m (39.37 in), 4 mm <sup>2</sup> (12 AWG). MC4 or LC4 |

## DIMENSIONS



## PACKAGING

Modules per pallet  
**24**

Packaging size (pallet+carton)

1720 x 1140 x 1155 mm  
(5.64 x 3.74 x 3.79 feet)

Recyclable materials

