

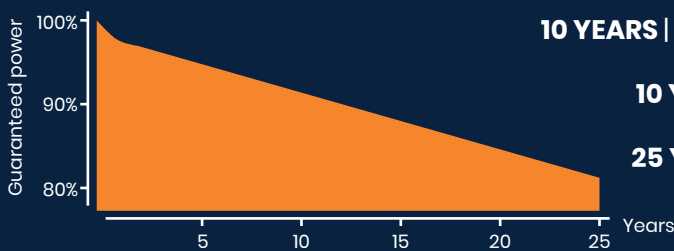


# ARTM144-415 PERC HC



## QUALITY DESIGN | GREAT DURABILITY | EASY INSTALLATION

*International quality, safety and certifications  
ISO9001 certification of work processes and systems  
Beautiful appearance, excellent durability and easy installation  
Special design in accordance with requirements of customers*



**10 YEARS** | for products defects in materials and workmanship

**10 YEARS** | for 90% of warranted minimum power output

**25 YEARS** | for 80% of warranted minimum power output

**25 YEARS** | linear warranty

# ARTM144-415 PERC HC

## General data

<b>Standard model</b>	405W	410W	415W
<b>Maximum power (Pmax)</b>	405W	410W	415W
<b>Maximum voltage (Vmp)</b>	40,6V	40,8V	41,0V
<b>Maximum current (Imp)</b>	9,98A	10,05A	10,13A
<b>Open circuit voltage (Voc)</b>	49,5V	49,7V	49,9V
<b>Short circuit current (Isc)</b>	10,48A	10,55A	10,64A
<b>Module efficiency (%)</b>	19,93	20,18	20,42
<b>System voltage</b>	DC 1500V (TUV) / DC 1000V(TUV)		
<b>Maximum series fuse rating</b>	15A		

## Mechanical data

<b>Dimensions</b>	2024 x 1004 x 40 mm
<b>Weight</b>	22,5 kg
<b>Front glass</b>	3,2 mm tempered glass
<b>External cables</b>	Diameter: 4 mm <sup>2</sup> Length: 900 mm
<b>Connectors</b>	MC4
<b>Cell type</b>	Monocrystalline silicon 5BB 9BB 12BB 78 x 156 mm
<b>Number of cells</b>	144 cells in serie

## Temperature characteristics

<b>Temp. Coeff of Isc (TK Isc)</b>	0,049% / °C
<b>Temp. Coeff of Voc (TK Voc)</b>	-(0,29%) / °C
<b>Temp. Coeff of Pmax (TK Pmax)</b>	-(0,39%) / °C
<b>Operating temperature</b>	(-40 ~ +85%) °C
<b>Normal operating temperature</b>	45 ± 2 °C

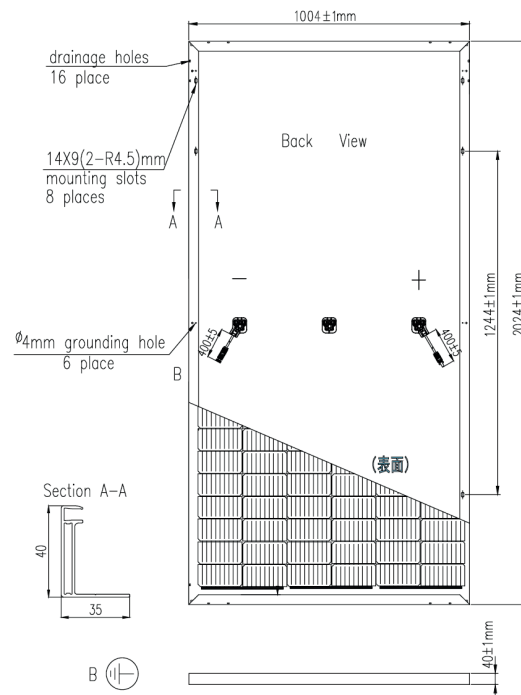
## Packing configuration

<b>Container</b>	40'HQ
<b>Pieces per pallet</b>	56
<b>Pallets per container</b>	11
<b>Pieces per container</b>	616

## Certifications, test, guarantees

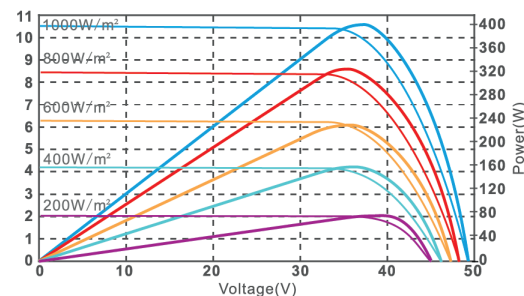
<b>Standard test</b>	IEC 61215, IEC 61730
<b>System certifications</b>	ISO 9001, ISO 14001, OHSAS 18001
<b>Certifications</b>	TUV
<b>Test extreme winds and snow load</b>	Extreme winds: 2400 Pascal Snow loads: 5400 Pascal
<b>Positive tolerance</b>	0 ~ + 3%
<b>Protection index</b>	IP67
<b>Guarantees</b>	10 years of product warranty and 25 years at 80% guaranteed power

## Dimension scheme

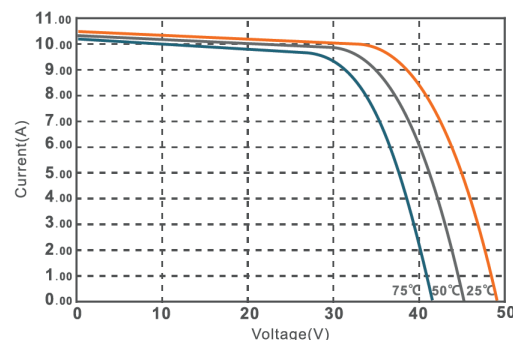


## I-V Curve

I-V characteristics at different irradiations



I-V characteristics at different temperature



For more information, visit our website:  
[www.artesolarfotovoltaiica.com](http://www.artesolarfotovoltaiica.com)

