

## Professional 72

Monocrystalline, 310 – 330 Wp

Powerful. Attractive. Versatile.

Flexible and simple installation:

- ✓ Vertical, horizontal and upside-down installation possible
- ✓ Optimized for open space systems

Optimized for power:

- ✓ Anti-reflective glass ensures high yields even under diffuse irradiation
- ✓ Positive power classification
- ✓ 100% PID safe

Warranty and safety:

- ✓ Manufactured in the CS Wismar factory, certified in accordance with DIN EN ISO 9001:2008, ISO 14001:2009 and OHSAS 18001:2007
- ✓ Salt spray corrosion testing according to IEC 61701
- ✓ Ammonia resistance testing according to IEC 62716
- ✓ 10-year product warranty \*
- ✓ 26-year linear performance guarantee



- ✓ **monocrystalline cells**
- ✓ **glas-foil laminate**
- ✓ **silver anodized frame**
- ✓ **white backside**
- ✓ **Positiv classified -0/+5 Wp**

\* For detailed information, please consult the CS-Wismar GmbH warranty conditions





## Performance under STC\*

Module type	Professional 72 310M72	Professional 72 315M72	Professional 72 320M72	Professional 72 325M72	Professional 72 330M72
Nominal power ( $P_{mpp}$ )	310 W	315 W	320 W	325 W	330 W
Open-circuit voltage ( $U_{oc}$ )	45.36 V	45.45 V	45.57 V	45.68 V	45.80 V
Voltage ( $U_{mpp}$ )	35.96 V	36.12 V	36.29 V	36.48 V	36.68 V
Current ( $I_{mpp}$ )	8.63 A	8.73 A	8.82 A	8.93 A	9.05 A
Short-circuit current ( $I_{sc}$ )	9.15 A	9.21 A	9.28 A	9.37 A	9.46 A
Efficiency $\eta$	15.8 %	16.1 %	16.4 %	16.6 %	16.9 %

\*Under Standard Test Conditions (STC) (1,000 W/m<sup>2</sup>, spectrum AM 1.5, cell temperature 25°C), measurement tolerances STC:  $\pm 3\%$  ( $P_{mpp}$ );  $\pm 10\%$  ( $I_{sc}$ ,  $U_{oc}$ ,  $I_{mpp}$ ,  $U_{mpp}$ )

## Power at 800 W/m<sup>2</sup>, NOCT, AM 1.5

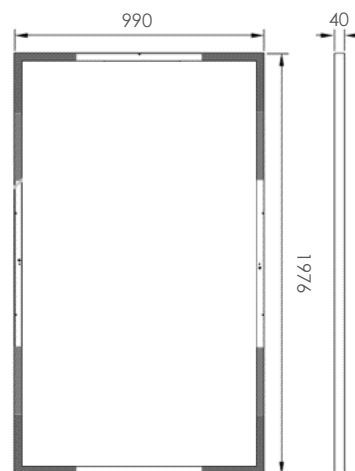
Module type	Professional 72 310M72	Professional 72 315M72	Professional 72 320M72	Professional 72 325M72	Professional 72 330M72
Nominal power ( $P_{mpp}$ )	227.67 W	231.30 W	234.68 W	238.56 W	243.14 W
Short-circuit current ( $I_{sc}$ )	7.38 A	7.43 A	7.48 A	7.56 A	7.63 A
Open-circuit voltage ( $U_{oc}$ )	41.58 V	41.67 V	41.77 V	41.88 V	41.98 V
Voltage ( $U_{mpp}$ )	33.14 V	33.28 V	33.43 V	33.60 V	33.77 V
Current ( $I_{mpp}$ )	6.87 A	6.95 A	7.02 A	7.10 A	7.20 A

## Thermal properties

TC $P_{mpp}$	-0.43 %/K
TC $U_{oc}$	-0.35 %/K
TC $I_{sc}$	0.03 %/K
NOCT	46 +/- 2 °C

## Other technical specification

Positive power classification	-0/+4.99 W
Max. system voltage	1000 V
Weight	26 $\pm$ 0.5 kg
Reverse current load IR	15 A
Junction box	IP 65
Frame height	40 mm
Bypass diodes in connector	3 pcs



Measurements in mm