

**PROFESSIONAL M60**  
Low Carbon

MONOCRYSTALLINE 280-290 WP

**Certified sustainable manufacturing**

Sustainable manufacturing certified by Certisolis

**Optimized for performance**

PID-free monocrystalline high performance solar cells

Antireflective glass ensures high yields even at diffuse irradiation

Positively classified -0/+4.99 Wp

Industry-leading NOCT values

100% PID safe

**Highest quality standards**

Manufactured in accordance with DIN EN ISO 9001:2008 and ISO 14001:2009 and OHSAS 18001:2007

Type approval according to IEC 61215 and safety qualification according to IEC 61730

Fire protection: tested in accordance with DIN ENV 1187 (t1)

Salt spray corrosion testing according to IEC 61701

Ammonia resistance testing according to IEC 62716

**Guaranteed performance \***

26 years linear performance guarantee

12 years product guarantee, optionally extendable to 25 years

Optional complete protection for the entire system

**PROFESSIONAL 280 | 285 | 290 M60 LC**

**Performance STC**

Under Standard Test Conditions STC: 1,000 W/m<sup>2</sup>, spectrum AM 1.5, cell temperature 25°C, measurement tolerances STC: ±3% (Pmpp)

Nominal Power (Pmpp)	280	285	290
Open Circuit Voltage (Uoc)	39,16	39,33	39,48
Voltage (Umpp)	31,64	32,01	32,37
Short Circuit Current (Isc)	9,46	9,54	9,63
Current (Impp)	8,87	8,90	8,95
Efficiency η	17,1	17,4	17,7

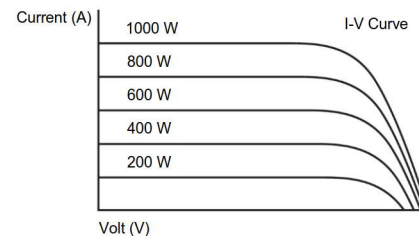
**Performance**

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

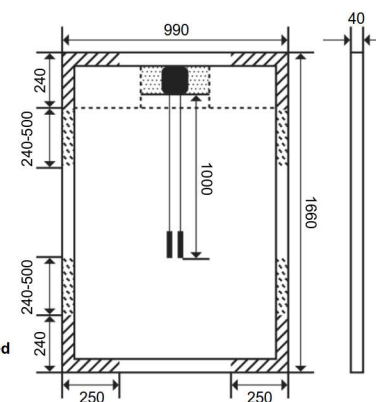
Nominal Power (Pmpp)	208	211	214
Open Circuit Voltage (Uoc)	36,16	36,32	36,45
Voltage (Umpp)	29,39	29,70	30,00
Short Circuit Current (Isc)	7,63	7,70	7,77
Current (Impp)	7,07	7,09	7,13

**Carbon Footprint**

detailed information please refer to carbon footprint certificate



**Clamping Areas**  
 Approved up to 2400 Pa  
 Approved up to 5400 Pa  
**No contact between junction box and mounting profile permitted in this area.**



**Thermal Properties**

TC Pmpp	-0.41 %/K
TC Uoc	-0.32 %/K
TC Isc	0.035 %/K
NOCT	46 +/- 2 °C

**Other Technical Specification**

Max. System Voltage	1000 V
Weight	19.0 ± 0.5 kg
Reverse Current Load IR	15 A
Junction Box	IP67
Connectors	IP68
Bypass Diodes in Junction Box	3 pcs

**Material Used**

No. of Cells	60 pcs
Type of Cells	Monocrystalline
Front	Hardened Solar Glass
Frame	Anodized Aluminium
Frame Height	40 mm

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

