Photowatt®

PW60LHT-C

THE HIGH POWER MONOLIKE PERC MODULE

With Photowatt industry leading Crystal Advanced-PERC cell technology and the innovative LIC (Low Internal Current) module technology, we are now able to offer our global customers high power monolike modules up to 365 Wp. Photowatt® has been a pioneer in the solar energy industry for 40 years.

365-325 Wp
Typical power

19.7 %
Typical efficiency

120 half-cells
Multicristalline module

CO2
Low-carbon footprint

0/+5 Wp
Power tolerance

Environmental standards

- Priority over environmental requirements by limiting the carbon footprint
- Recycling of used panels (Photowatt is co-founder of Soren)

Durability and performance

- Modules certified by international organizations (VDE)
  Better performance thanks to anti-reflective glass
- Cells sorted by reverse current and shunt resistance
- Better power thanks to the spacing uniform and
- optimized between cells

Highly resistant and light framing

- Aluminum frame for resistance to extreme climatic conditions (5400Pa)
- Frost resistant frame
- Weight of module for easy handling

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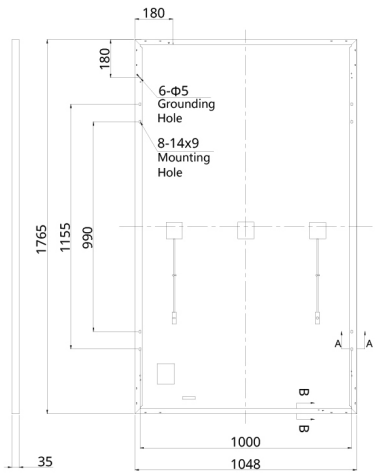
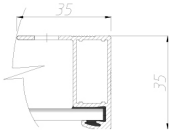
Rear View

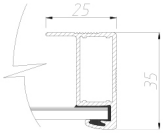


Frame Cross Section

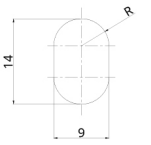
A-A



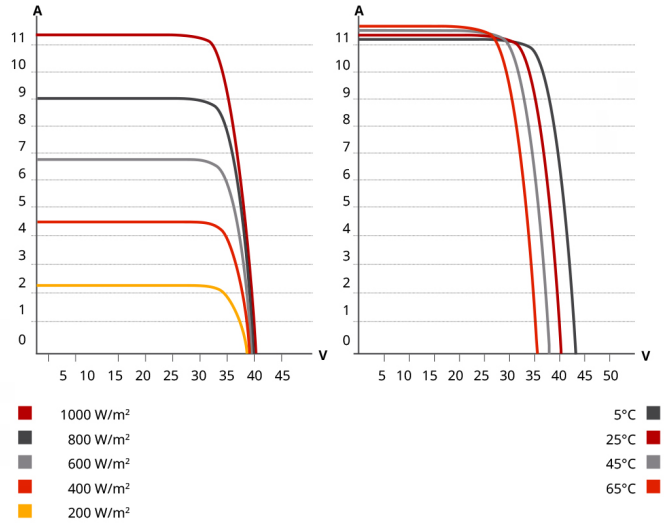
B-B



Mounting Hole



LOW IRRADIANCE AND TEMPERATURES CURVES



MECHANICAL CHARACTERISTICS

Cell type	Multicrystalline
Module size	1765 x 1048 x 35 mm
Cells number	120 [2x (6 x 10)]
Module weight	20.5 kg
Front cover	3.2 mm tempered glass
Frame material	Anodized aluminum alloy
J-BOX	IP68, 3 bypass diodes
Solar cables	Customized length *
Connector type	Series T4 or MC4-EVO2 or H4 UTX
Per Pallet	30 pieces
Per Container (40'HQ)	780 pieces

* For detailed information, please contact your local EDF ENR PWT sales and technical representatives

OPERATING CONDITIONS

Operating temperature	-40°C to +85°C
High resistance to snow and wind load	5400 Pa (Snow) 3600 Pa (Wind)
Maximum system voltage	1000V or 1500V (IEC)
Fire resistance	Type 1 (UL 61730 1500V) or TYPE 2 (UL 61730 1000V) or Class C (IEC 61730)
Maximal serie fuse rating	20 A
Application classification	Class A

TEMPERATURE COEFFICIENT*

Typical cells temperature NOCT	°C	41 (±3 °C)
Temperature coefficient Pmax	γ	-0,36 %/°C
Temperature coefficient Voc	ß	-0,28 %/°C
Temperature coefficient Isc	α	+0,05 %/°C

* 1000 W/m² ; temperature 25°C ; spectrum AM 1,5

TECHNICAL CHARACTERISTICS (STC*)

Typical power	**W**	365	360	355	350	345	340	335	330	325
Power tolerance	**W**	0/+5	0/+5	0/+5	0/+5	0/+5	0/+5	0/+5	0/+5	0/+5
Voltage at typical power	**V**	33.6	33.4	33.2	33.0	32.8	32.6	32.4	32.2	32.0
Current at typical power	**A**	10.87	10.78	10.7	10.61	10.52	10.43	10.34	10.24	10.16
Open circuit votage	**V**	40.8	40.6	40.4	40.2	39.8	39.6	39.4	39.2	39.0
Short circuit current	**A**	11.44	11.37	11.31	11.24	11.06	10.98	10.90	10.82	10.74
Module conversion efficiency	**%**	19.7	19.5	19.2	18.9	18.7	18.4	18.1	17.8	17.6

* Under Standard Test Conditions : STC (1000 W/m² ; spectrum AM 1,5 ; cell temperature 25°C)

TECHNICAL CHARACTERISTICS (NMOT*)

Typical power	**W**	365	360	355	350	345	340	335	330	325
Maximum power	**W**	273	269	265	262	258	254	250	247	242
Voltage at maximum power	**V**	31.4	31.2	31.0	30.8	30.6	30.5	30.3	30.1	29.8
Current operating income	**A**	8.69	8.62	8.56	8.49	8.42	8.35	8.27	8.20	8.13
Open circuit voltage	**V**	38.4	38.2	38.1	37.9	37.5	37.3	37.1	36.9	36.6
Short circuit current	**A**	9.22	9.17	9.12	9.06	8.92	8.85	8.79	8.72	8.66

* Under Nominal Module Operating Temperature : NMOT (800 W/m² ; ambient temperature 20°C ; wind speed 1 m/s)

WARRANTY

Product warranty	10 years
Linear power output warranty*	25 years

* See general warranty terms and conditions

QUALITY CERTIFICATES

MANAGEMENT

afaq ISO 9001 Qualité AFNOR CERTIFICATION

Soren

PRODUCT

VDE

IEC 61215 • IEC 61730
IEC 61701 • IEC 62716

CE

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