

280 W_p single photovoltaic module

72 polycrystalline silicon cells module

Protected by high-transparency glass

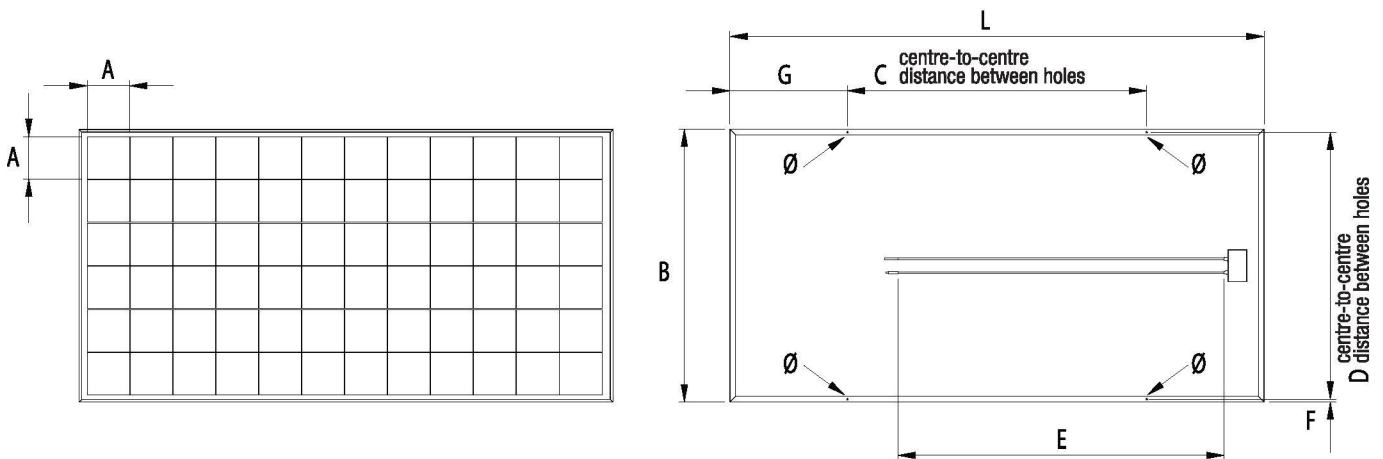
Vacuum-encapsulation of the cells
between 2 sheets of EVA

White polyvinyl fluoride back-side protection

Maximum mechanical load capacity = 5,400 N/m².

Compliant with:
CEI-EN 61215 - CEI-EN 61730
TÜV Rheinland no. AK38700010/11

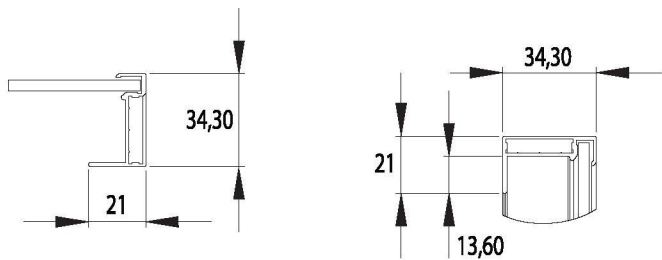
Module made of 72 polycrystalline silicon cells. The single cell measures 156 mm x 156 mm. High-transparency protective glass; the photovoltaic cells are vacuum-encapsulated between 2 sheets of EVA (ethylene vinyl acetate). The back-side of the module is protected with backing material specially designed for photovoltaic applications that combines high resistance and durability. Maximum mechanical load capacity = 5,400 N/m². The module is bordered by an aluminium frame.



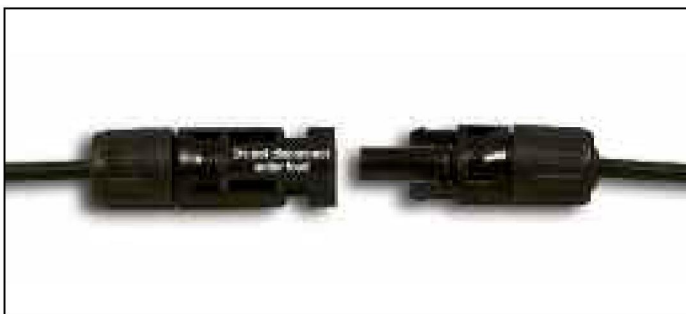
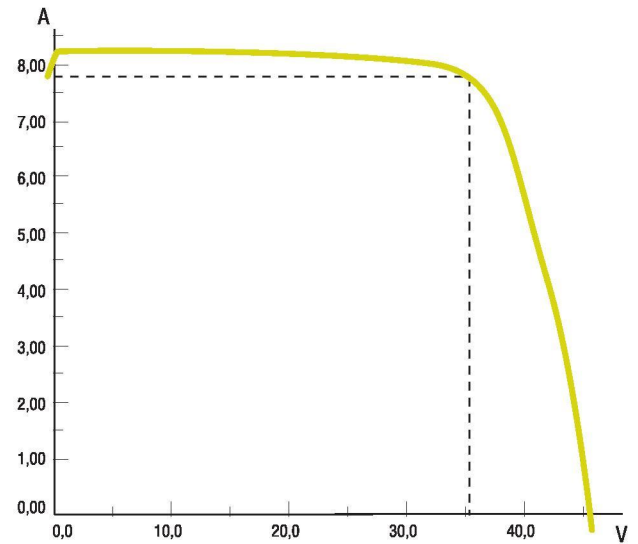
Power W _p	L	B	H	• Dimensions (mm) •			E	F	G	Ø	Weight kg
				A	C	D					
280	1965	1003	36 max	156	1102	975	1200	14	431,5	6,50	25

Order Code	Description
15744	280 W _p single module - polycrystalline silicon cell

Dimensional details



Characteristic curve of the module (Voltage – Current)



MC4-type connection

Mechanical data

Cell	Polycrystalline silicon 156 x 156 mm
No. of cells and connection	72 cells connected in series
Type of connection	pin-type compatible with MC4 IP67

Threshold values

Maximum humidity tolerated	90%
Operating temperature range	-40° ± +85°
Maximum voltage of the system	1000 V _{cc}
Maximum load capacity	5400 N/mq

Mechanical data

Peak power (P _{max})	280 Wp
MPP voltage	35,54 V
Open-circuit voltage	45,64 V
MPP current	7,88 A
Short-circuit current	8,42 A
Module performance	14,20 %
Maximum isolation voltage	1.000 V _{dc}
Temperature coefficient of short-circuit current (I _{sc})	4,2 mA/°C (0,05%/°C)
Temperature coefficient of the open-circuit voltage	-0,168 V/°C (-0,37%/°C)
Temperature coefficient of the maximum power	-1,260 W/°C (-0,45%/°C)
Module surface area	1,971 m ²
Bypass diode	presente (n° 3)
NOCT	45 ± 2 °C