



**ESCELCO** operates from its photovoltaic cells and modules factory in Bembibre, León. Through the vertical integration of the production process and the quality control of all its products, Escelco provides security, guarantees and service throughout Spain.

**25 YEARS PERFORMANCE WARRANTY**  
**10 YEARS PRODUCT WARRANTY**



## MONOCRYSTALLINE MODULE 180-210W

72 cells | Silver/White



Free PID



100% electroluminescence test



Module efficiency over 16,45%



ISO Certification  
9001:2015 y 14001:2015



EN 61215-2:2017 / EN  
IEC 61730-2:2018/  
AC:2018-06



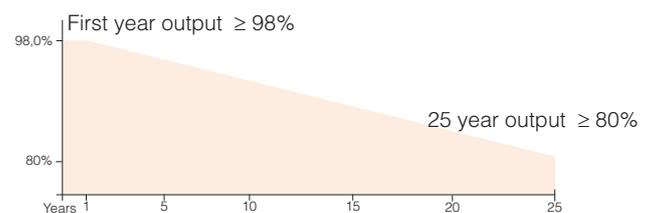
Factory Inspection  
Certificate

### QUALITY

- 3,2mm Arc tempered glass
- Frame with higher mechanical resistance and air chamber
- High performance under low light conditions (cloudy days, mornings and evenings)
- Back load (wind) 2.400 Pa / Frontal load (snow) 5.400 Pa

### LINEAR PERFORMANCE WARRANTY

- Higher performance over 80% at 25 years





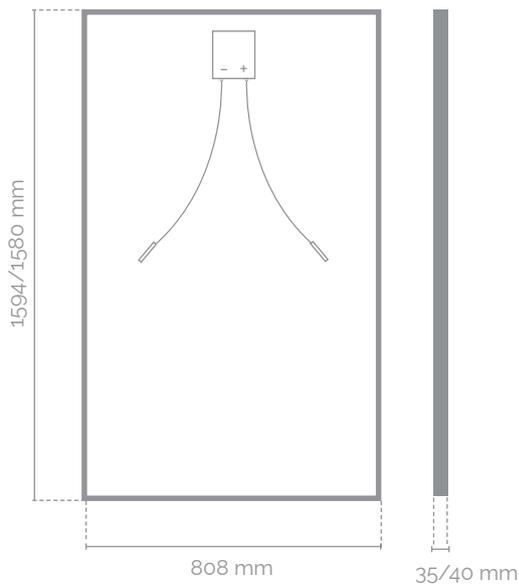
## ELECTRIC DATA

Reference	ESM180-72F-M0-S	ESM200-72F-M0-S	ESM210-72F-M0-S
Nominal power, P <sub>mpp</sub>	180W	200W	210W
Tolerance, P <sub>mpp</sub>	0/+3%	0/+3%	0/+3%
Module efficiency	14,10%	15,67%	16,45%
I <sub>sc</sub> (A)	5,78	5,95	6,13
V <sub>oc</sub> (V)	43,02	44,45	45,33
I <sub>mpp</sub> (A)	5,14	5,41	5,65
V <sub>mpp</sub> (V)	35,03	36,98	37,17
Maximum voltage	1.000 V	1.000 V	1.000 V
Reverse-current power rating	15A	15A	15A
α I <sub>sc</sub>	0,075%/°C	0,075%/°C	0,075%/°C
β V <sub>oc</sub>	-0,31%/°C	-0,31%/°C	-0,31%/°C
γ P <sub>max</sub>	-0,42%/°C	-0,42%/°C	-0,42%/°C
Temperature range	-40°C a +85°C	-40°C a +85°C	-40°C a +85°C
NMOT	45°C ± 2°C	45°C ± 2°C	45°C ± 2°C

## TECHNICAL FEATURES

- Cell arrangement: 72 (6x12) monocrystalline 125x125mm
- Weight: 15.5Kg
- Dimensions: 1594/1580x808x35/40/50mm ±1%
- Packaging: 648 pcs-truck
- 27 units per pallet
- Pallet Weight: 418.5 Kg

## DIMENSIONS



## CONNECTION BOX

- Sealed, robust and wide for heat dissipation
- IP67/IP68 according to IEC 60529
- 3 diodes by-pass
- MC4 connectors. Stäubli on demand
- Cables 900mm (±0,1m) length and 4mm<sup>2</sup> section

## FRAME

- Silver / anodized aluminium 0,015 mm
- Backsheet White
- Robust and resistant to corrosion
- Mounting bore holes: on demand
- Built-in plug

## YIELD CURVE

