

ESCELCO, 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
12 YEARS PRODUCT WARRANTY

HALF-CELL MONOCRYSTALLINE MODULE 450-460W

144 cells | Silver/White



Free PID



100% electroluminescence test



Back load (wind) 2.400 Pa / Frontal load (snow) 5.400 Pa



ISO Certification
9001:2015 y 14001:2015



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



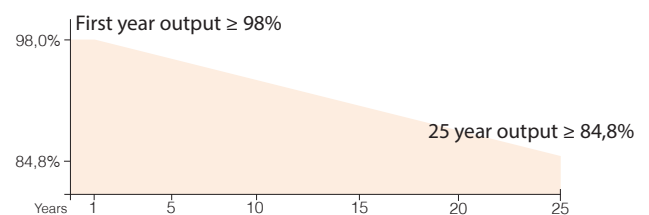
Module efficiency over
21,16%

QUALITY

- 3,2 mm ArC tempered glass
- Frame with higher mechanical resistance and air chamber
- High performance under low light conditions (cloudy days, mornings and evenings)

LINEAR PERFORMANCE WARRANTY

- Higher performance over 84,8% at 25 years





ELECTRIC DATA

Reference	ESM450-72H-M6-S	ESM455-72H-M6-S	ESM460-72H-M6-S
Nominal power, P _{mpp}	450W	455W	460W
Tolerance, P _{mpp}	0/+3%	0/+3%	0/+3%
Module efficiency	20,70%	20,93%	21,16%
I _{sc} (A)	11,43	11,51	11,59
V _{oc} (V)	50,27	50,42	50,57
I _{mpp} (A)	11,01	11,10	11,18
V _{mpp} (V)	40,91	41,04	41,17
Maximum voltage		1.500V	
Reverse current power rating		25A	
α I _{sc}		0,038%/°C	
β V _{oc}		-0,270%/°C	
γ P _{max}		-0,365%/°C	
Temperature range		-40°C a +85°C	
NMOT		45°C ± 2°C	

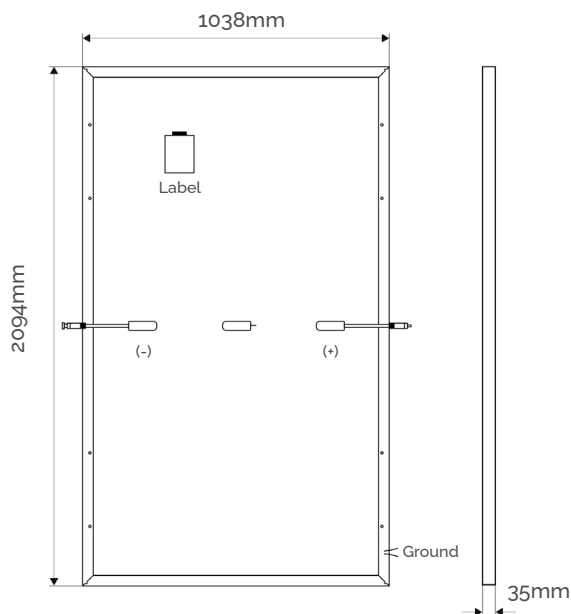
TECHNICAL FEATURES

- Cell arrangement: 144 [2x(06x12)]
- Weight: 24,3Kg
- Dimensions: 2094x1038x35mm
- Packaging: 682 pcs-truck
- 31 units per pallet
- Pallet Weight: 800 Kg

CONNECTION BOX

- Robust and resistant to corrosion
- IP67/IP68 according to IEC 60529
- 3 Diodes by-pass
- Connector mC4 or compatible
- Cables 1,2m (±0,1m) length and 4mm² section

DIMENSIONS



FRAME

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

YIELD CURVE

