



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
10 YEARS PRODUCT WARRANTY

POLYCRISTALLINE MODULE 210-230W
60 cells | Silver/White



Free PID



100% electroluminescence test



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



High transmissivity and anti-reflective glass



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



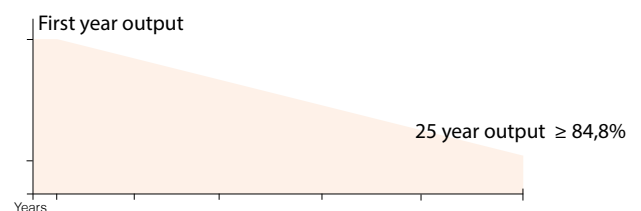
Module efficiency over
14,14%

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	ESP210W-60F-M2-S	ESP220W-60F-M2-S	ESP230W-60F-M2-S
Nominal power, P _{mpp}	210W	220W	230W
Tolerance, P _{mpp}	0/+3%	0/+3%	0/+3%
Module efficiency	12,91%	13,52%	14,14%
I _{sc} (A)	7,95	8,15	8,40
V _{oc} (V)	36,00	36,50	37,00
I _{mp} (A)	7,37	7,59	7,80
V _{mpp} (V)	28,50	29,00	29,50
Maximum voltage		1.000 V	
α I _{sc}		0,06/°C	
β V _{oc}		-0,33%/°C	
γ P _{max}		-0,41%/°C	
Temperature range		-40°C a +85°C	
NMOT		45°C ± 2°C	

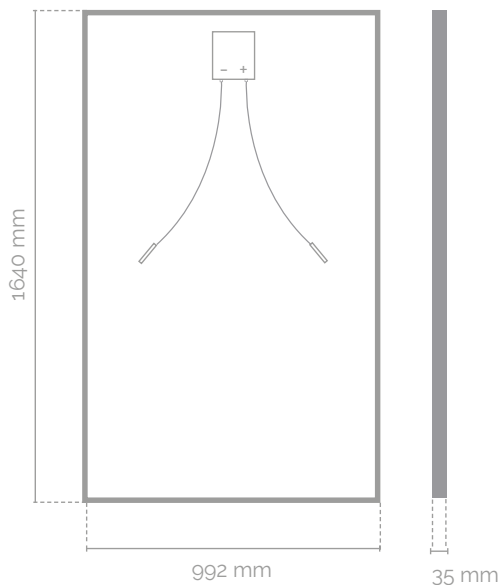
TECHNICAL FEATURES

- Cell arrangement: 60 (06x10)
- Weight: 18,5Kg
- Dimensions: 1640x992x35mm ±1%
- Packaging: 720 pcs-truck
- 30 units per pallet
- Pallet Weight: 555Kg

CONNECTION BOX

- Robust and resistant to corrosion
- IP67/IP68 according to IEC 60529
- 3 Diodes by-pass
- Connector mC4 or compatible
- Cables 1.000mm (±1%) length and 4mm² section
- Fire Class I approval (unl 9177)

DIMENSIONS



FRAME

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

YIELD CURVE

