



escelco

Excellence beyond Solar Energy

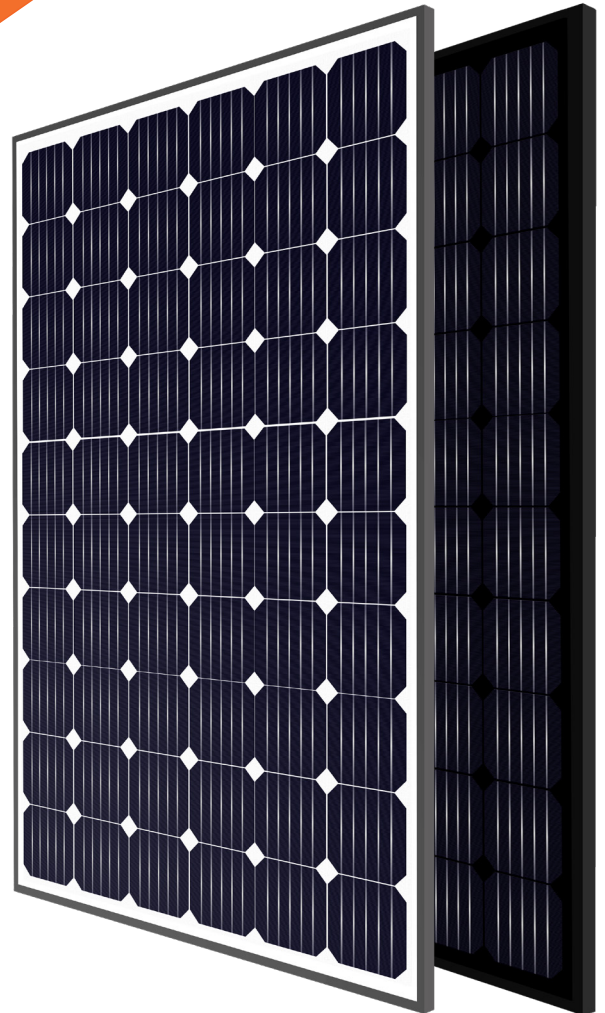
MONOCRYSTALLINE MODULE 300-320W

300-320W | 60 cells | Standard/Black

25 YEARS PERFORMANCE WARRANTY

15 YEARS PRODUCT WARRANTY

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.



 maximum voltage up to 1.500V

 6 optional by-pass diodes

 Electroluminescence test

 High transmissivity and anti-reflective glass

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

 Frame with higher mechanical resistance and air chamber

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



ESPAÑA
GARANTÍA · SERVICIO



Factory:

Polígono Industrial Bierzo Alto. (A6 - km 372)
C/ Las Canteras s/n, 24318 Bembibre, Leon. Spain
+34 987 526 880

info@escelco.eu / www.escelco.eu

TECHNICAL FEATURES

Frame

Black / Silver anodized aluminium 0,015 mm

Robust and resistant to corrosion

Mounting holes

Built-in plug

Connection box

Sealed, robust and wide for heat dissipation

IP67/IP68 according to IEC 60529

Diodes by-pass built-in (3/6) f or protection of the partial shading

Connector mC4 or compatible

Cables 1m ($\pm 0,1$ m) length and 4mm² section

Fire Class I approval (unl 9177)

Frontal

3,2 mm ArC tempered glass

Textured, extra-clear with low iron content

Covered cell interconnections (only in Black)

Solar cells

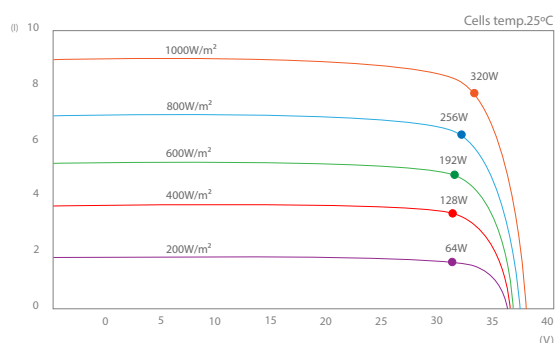
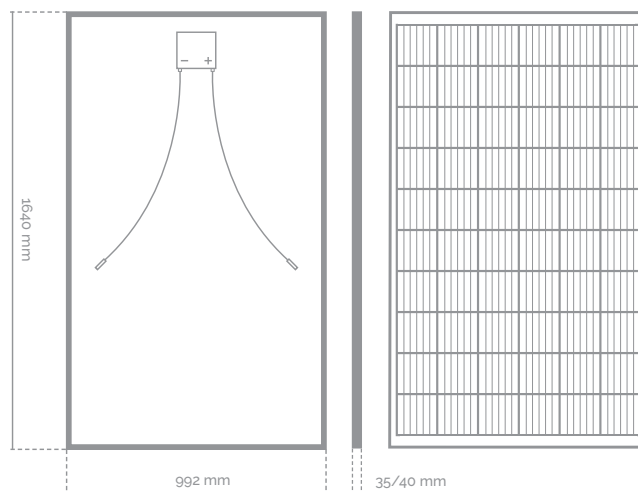
60 cells monocrystalline silicon / 6" / 5BB

Weight, dimensions and packaging

20 Kg | 1640 x 992 x 40mm(+/-1%) | Packaging: 784 pcs-truck

19 Kg | 1640 x 992 x 35mm(+/-1%) | Packaging: 896 pcs-truck

MONOCRYSTALLINE MODULE 300-320W 300-320W | 60 CELLS | STANDARD/BLACK



ELECTRIC DATA

Standard - Black	MESC 300W	MESC 310W	MESC 315W	MESC 320W
Nominal power, P _{mpp}	300W	310W	315W	320W
Tolerance, P _{mpp}	0 / +5W	0 / +5W	0 / +5W	-1% / +3%
Area of the module	1,62			
Module efficiency	18,52%	19,14%	19,44%	19,75%
I _{sc}	9,89 A	9,93 A	9,95 A	9,96 A
U _{oc}	39,75 V	40,20 V	40,50 V	40,85 V
I _{mpp}	9,37 A	9,67 A	9,82 A	9,88 A
U _{mpp}	32,02 V	32,06 V	32,08 V	32,39 V
Maximum voltage	1.000 V / 1.500 V			
α I _{sc}	0,05% / °C			
β U _{oc}	- 0,29% / °C			
γ P _{max}	- 0,39% / °C			
Temperature range	- 40°C to +85°C			
NOCT	45°C ± 2°C			

Note: read the instruction manual of this product and follow the indications STC. Values are valid for: 1000W/m², A_m 1,5 and cell's temperature of 25°C. measurement tolerance +/-3% (AAA Solar simulation -IEC 60.904-9-). All the information of this brochure may be amended without notice by Escelco.



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