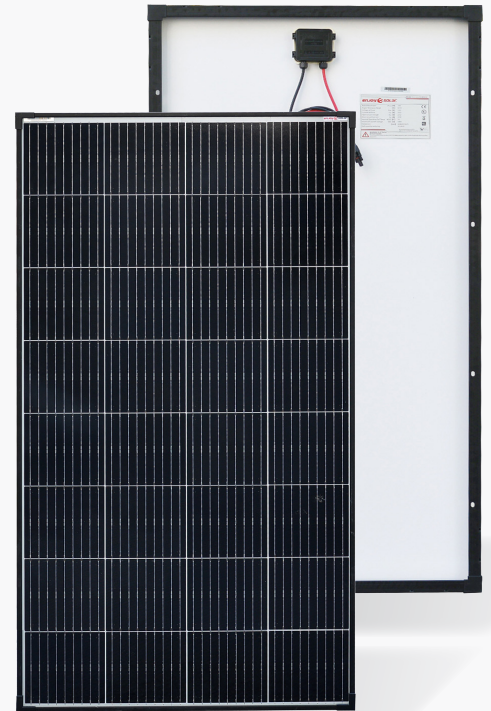
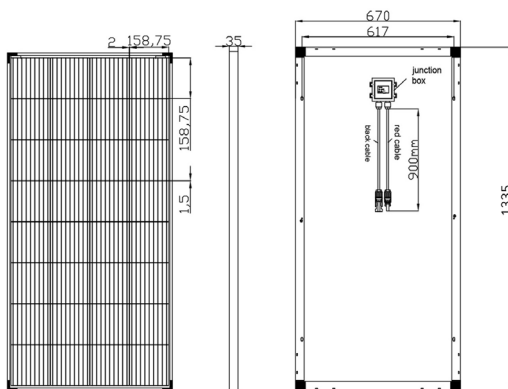


## Monocrystalline 180W 12V

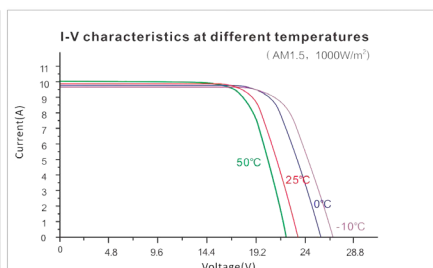
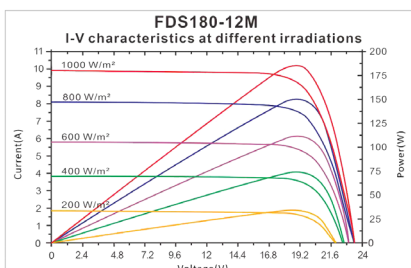
### Electrical characteristics

Product Code	Eco Line ES180-12M 180
SKU	1120180
EAN Code	4260558571308
Maximum Power (Pmax)	180Wp
Voltage at Pmax (Vmp)	18.56V
Current at Pmax (Imp)	9.70A
Open-circuit Voltage (Voc)	21.73V
Short-circuit Current (Isc)	10.25A
Temperature coefficient of Voc	-0.36%/K
Temperature coefficient of Isc	0.05%/K
Temperature coefficient of Power	-0.44%/K
Normal operating cell Temperature	44 ± 2°C
Operating Temperature	-40 ~ +85°C
Maximum System Voltage	1000 VDC
Power Tolerance	0 ~ +3%
Junction box	IP65
Bypass diodes	2 pcs
Solar Cell	Mono 32 (4 × 8)
Connection cable and connector	4mm <sup>2</sup> x 90cm, Solar Stecker (+/-)
Performance guarantee	25 Years
Dimension (mm)	1335 × 670 × 35
Weight (kg)	10.9

### Module diagram and characteristic curve



- 158.75mm cell, 9 busbars
- 21.5% cell efficiency
- +3% Plus Tolerance Sorted
- reinforced aluminum frame
- TÜV Saar certified
- 25-year Product guarantee



\*Measured at standard test conditions: irradiance 1.000W/m<sup>2</sup>, air mass 1.5 spectrum, temperature 25°C  
Electrical parameters may vary by -5% to +5%



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