

The logo for Fire Energy, featuring the words "Fire Energy" in a stylized font with a blue and red swoosh underneath.

HAND BY HAND

<http://fire-energy.net>

The logo for Yingli Solar, featuring the words "YINGLI SOLAR" in blue capital letters next to a stylized orange sun icon.

C/ Tales de Mileto, Nº 15 nave-2
Polígono Industrial La Garena sector 30-C
28806 Alcalá de Henares
Madrid, Spain

tel.: (+34) 91 879 88 52; fax: (+34) 91 882 51 82



Our partnership with Yingli Solar helps us to respond to all requirements of every individual customer.

The photovoltaic modules are designed for large electrical power requirements.

With a 25 year warranty, they have superb durability to withstand rigorous operating conditions.

Ideal for grid-connected and remote power systems, the pv panels offer high usable power per square foot of solar array.

- Solar Cell: High efficiency crystalline solar cell 15%. Even if under the weak light, the solar module can produce maximum power output.
- Tempered glass: Anti-reflecting coating and high transmission rate glass increase the power output and mechanical strength of solar module.
- EVA and TPT: Using EVA and TPT to prevent destroying and water.
- AI frame: Without screw, corner connection. 6 holes on the frame can be installed easily.
- Junction box: Multi function junction box with water proof.
- Long lifetime: ≥ 25 years; Less power decrease.
- Good performance of preventing from atrocious weather such as wind and hails.
- Resisting moisture and etching effectively, not effect by geology.
- The certificate issued by international authority: ISO Quality Management system, UL, TUV, IEC.

➤ PV Panels

YL160Wp
YL165Wp
YL170Wp
YL175Wp
YL180Wp
YL200Wp
YL210Wp
YL220Wp



TECHNICAL SPECIFICATIONS

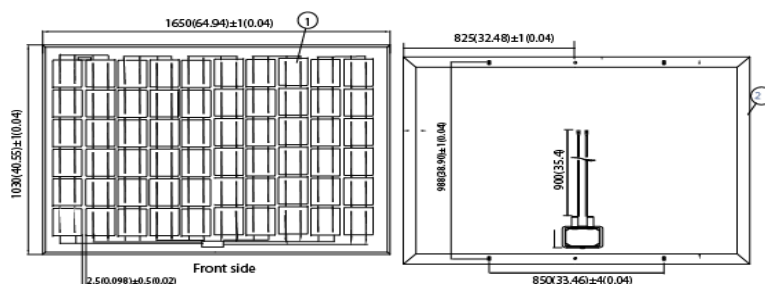
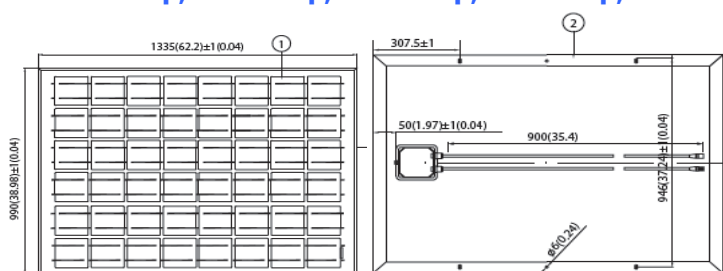
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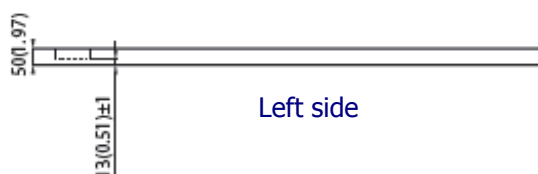
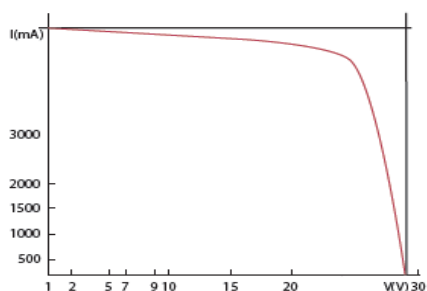
	YL160Wp	YL165Wp	YL170Wp	YL175Wp	YL180Wp	YL200Wp	YL210Wp	YL220Wp
Electrical parameter								
Module type	160 (35) P1335x990	165 (35) P1335x990	170 (35) P1335x990	175 (35) P1335x990	180 (46) P1335x990	200 (29) P1650x1030	210 (29) P1650x1030	220 (29) P1650x1030
Cell	Poly-crystal silicon							
Number of cells	48 in series					60 in series		
Maximum power (Pm)	160W±3%	165W±3%	170W±3%	175W±3%	180W±3%	200W±3%	210W±3%	220W±3%
Maximum power Voltage (Vpm)	23.0 V	23.0 V	23.0 V	23.5 V	23.0 V	29.5 V	29.5 V	30.0 V
Maximum power Current (Ipm)	7.0 A	7.2 A	7.4 A	7.5 A	7.82 A	6.9 A	7.2 A	7.4 A
Open Circuit Voltage (Voc)	29.0 V	29.0 V	29.5 V	29.5 V	29.0 V	36.0 V	36.0 V	36.6 V
Short Circuit Voltage (Isc)	7.7 A	7.9 A	8.0 A	8.0 A	8.36 A	7.6 A	7.8 A	8.1 A
Module Efficiency	12.1%	12.5%	12.9%	13.2%	13.6%	11.7%	12.4%	12.9%
Cell Efficiency	13.7%	14.1%	14.6%	15.0%	15.4%	13.6%	14.4%	15.1%
Mechanical characteristics								
Dimensions (H x W x D)	1335x990x50 mm					1650x1030x50 mm		
Weight	15.7 Kg	15.7 Kg	15.7 Kg	15.7 Kg	15.7 Kg	18.7 Kg	18.7 Kg	18.7 Kg
Area	1.32 m ²	1.32 m ²	1.32 m ²	1.32 m ²	1.32 m ²	1.7 m ²	1.7 m ²	1.7 m ²
Temperature coefficients								
Power Tk(Wp)	- 0.45%/°C	- 0.45%/°C	- 0.45%/°C	- 0.45%/°C	- 0.45%/°C	- 0.45%/°C	- 0.45%/°C	- 0.45%/°C
Open Circuit Voltage Tk(Voc)	- 0.37%/°C	- 0.37%/°C	- 0.37%/°C	- 0.37%/°C	- 0.37%/°C	- 0.37%/°C	- 0.37%/°C	- 0.37%/°C
Short Circuit Current Tk(Isc)	+ 0.06%/°C							
Absolute maximum limits								
Max system voltage	1 000 V							
Module operating temperature	-45 - +85 °C							
Wind velocity	130 Km/h							
Noct	46±2 °C	46±2 °C	46±2 °C	46±2 °C	46±2 °C	46±2 °C	46±2 °C	46±2 °C
	YL160Wp	YL165Wp	YL170Wp	YL175Wp	YL180Wp	YL200Wp	YL210Wp	YL220Wp

YL160Wp; YL165Wp; YL170Wp; YL175Wp; YL180Wp

YL200Wp; YL210Wp; YL220Wp

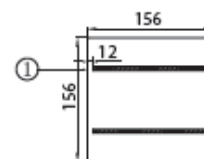


IV Curve



Left side

Cell back side



C/ TALES DE MILETO, Nº15 NAVE-2 POL IND. LA GARENA SECTOR 30-C
28806 ALCALÁ DE HENARES
MADRID, SPAIN

tel.: (+34) 91 879 88 52; fax: (+34) 91 882 51 82