YINGLI SOLAR

YLM 3.0 Plus 1

605W

MAXIMUM MODULE EFFICIENCY

21.4%

POSITIVE POWER TOLERANCE

0~+5W

P-type PERC Bifacial Module

IMPROVED POWER
NEVER SETTLE FOR LESS

- Backside Yield
- Wide Applications
- Superior Yield
- Lower Losses
- Excellent Durability

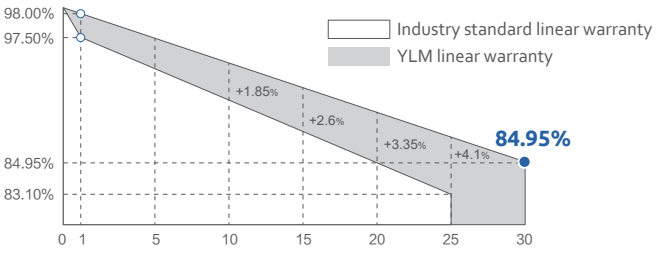
30 YEAR POWER WARRANTY

12 YEAR PRODUCT WARRANTY

Yingli Solar Website

QUALIFICATIONS & CERTIFICATES

IEC 61215, IEC 61730, CE
ISO 9001: Quality management systems
ISO 14001: Environmental management systems
IEC 62941: Quality system for PV module manufacturing
ISO 45001: Occupational health and safety management systems



2.00% the 1st year power degradation
0.45% annual power degradation

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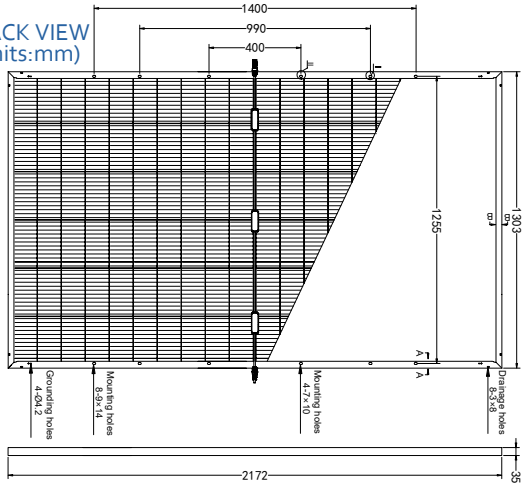
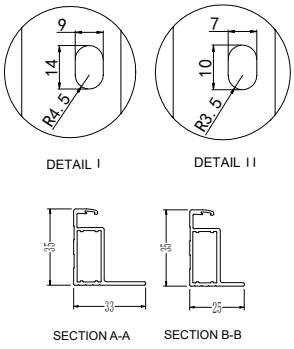
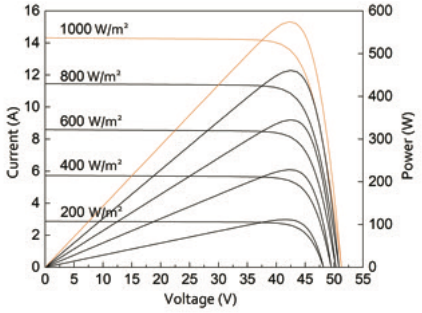
BACK VIEW
(units:mm)





I-V / P-V CURVES



Warning: Read the Installation and User Manual in its entirety before handling, installing and operating Yingli Solar modules.

Electrical Parameters at Standard Test Conditions (STC*)

Module type	YLxxxDF60 f/2 (xxx=Pmax)					
Power output-Pmax (W)	580	585	590	595	600	605
Power output tolerances– ΔPmax (W)	0 / + 5					
Module efficiency-η_m (%)	20.5	20.7	20.8	21.0	21.2	21.4
Voltage at Pmax - Vmpp (V)	33.70	33.90	34.10	34.30	34.50	34.70
Current at Pmax-Impp (A)	17.21	17.26	17.31	17.35	17.39	17.44
Open-circuit voltage-Voc (V)	40.70	40.90	41.10	41.30	41.50	41.70
Short-circuit current-Isc (A)	18.23	18.28	18.32	18.45	18.51	18.56

*STC: 1000 W·m^{-2} irradiance, 25℃ cell temperature, AM 1.5.

Electrical Parameters at Nominal Operating Cell Temperature (NOCT*)

Power output-Pmax (W)	436	439	443	447	451	454
Voltage at Pmax - Vmpp (V)	31.64	31.82	32.00	32.20	32.39	32.57
Current at Pmax-Impp (A)	13.77	13.81	13.85	13.88	13.91	13.95
Open-circuit voltage-Voc (V)	37.83	38.01	38.20	38.38	38.57	38.76
Short-circuit current-Isc (A)	14.69	14.73	14.76	14.87	14.91	14.95

*NOCT: open-circuit module operation temperature at 800 W·m^{-2} irradiance, 20℃ ambient temperature, 1 m · s^{-1} wind speed.

Bifacial Electrical Parameters at Standard Test Conditions(BNPI*)

Power output-Pmax (W)	635	640	646	651	657	662
Voltage at Pmax - Vmpp (V)	33.70	33.90	34.10	34.30	34.50	34.70
Current at Pmax-Impp (A)	18.84	18.89	18.94	18.99	19.03	19.08
Open-circuit voltage-Voc (V)	40.70	40.90	41.10	41.30	41.50	41.70
Short-circuit current-Isc (A)	19.95	20.01	20.05	20.19	20.26	20.31

*1000W·m^{-2} on the front side and 135 W·m^{-2} on the back side , 25℃ cell temperature, AM 1.5.
Bifaciality coefficient is 70% ± 5%.

Thermal Characteristics

Nominal operating cell temperature–NOCT(℃)	43 ± 2
Temperature coefficient of Pmax– γ (% / ℃)	– 0.34
Temperature coefficient of Voc– β (% / ℃)	– 0.25
Temperature coefficient of Isc– α (% / ℃)	0.04

Packaging Specifications

Number of modules per pallet	31
Number of pallets per 40' container	17
Packaging box dimensions (L / W / H)	1340 mm / 1140 mm / 2290 mm
Box weight	1140 kg

Operating Conditions

Max. system voltage	1500 VDC
Max. series fuse rating*	35 A
Operating temperature range	– 40℃~ 85℃
Max. static load, front (e.g., snow)	5400 Pa
Max. static load, back (e.g., wind)	2400 Pa
Max. hailstone impact (diameter / velocity)	25 mm / 23 m·s^{-1}

*Do not connect fuse in combiner box with two or more strings in parallel connection.

General Characteristics

Dimensions (L / W / H)	2172 mm / 1303 mm / 35 mm
Weight	35.1 kg

Construction Materials

Cell (material / quantity)	p-type monocrystalline silicon / 6 x 20
Glass (thickness)	2.0 mm / 2.0 mm
Frame (material)	anodized aluminum alloy
Junction box (type / protection degree)	3 bypass diodes / ≥ IP68
Cable (length / cross-sectional area)	± 300 mm or customized length / 4 mm^2

- Due to continuous innovation, research and product improvement, the specifications in this product information sheet are subject to change without prior notice. The specifications may deviate slightly and are not guaranteed.
- The data do not refer to a single module and they are not part of the offer, they only serve for comparison to different module types.

Yingli Solar Website

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