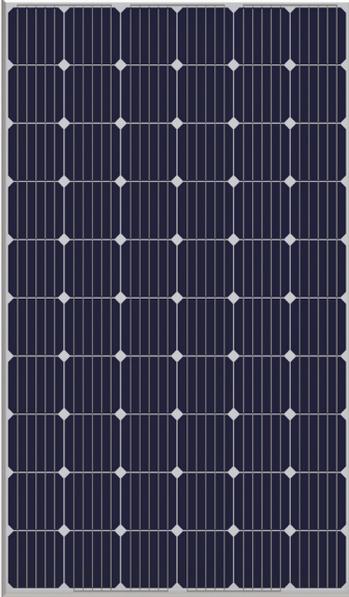


# YLM-VG 60 CELL

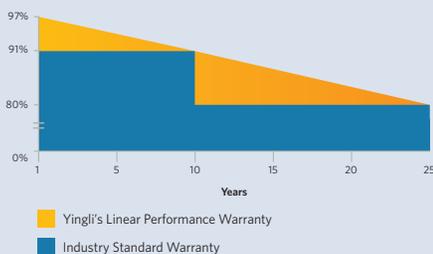


**19.7%**  
CELL EFFICIENCY

**10 YEAR**  
PRODUCT WARRANTY

**0-5W**  
POWER TOLERANCE

## 25 Years Linear Warranty



# IMPROVED POWER NEVER SETTLE FOR LESS

Choosing the best P-type monocrystalline cells, YLM-VG series modules are making the best out of your system. Trust in the expertise of Yingli and well proven technology.

**+  $\frac{W}{m^2}$  High Power Density**  
High conversion efficiency and more power output per square meter.

**Durability**  
Durable PV modules, independently tested for harsh environmental conditions such as exposure to salt mist, ammonia and known PID risk factors.

**Advanced Glass**  
Our high-transmission glass features a unique anti-reflective coating that directs more light on the solar cells, resulting in a higher energy yield.

**PID Resistant**  
Tested in accordance to the standard IEC 62804, our PV modules have demonstrated resistance against PID (Potential Induced Degradation), which translates to security for your investment.

### Yingli Green Energy

Yingli Green Energy Holding Company Limited (NYSE: YGE), known as "Yingli Solar", is one of the world's leading solar panel manufacturers with the mission to provide affordable green energy for all. Yingli Solar makes solar power possible for communities everywhere by using our global manufacturing and logistics expertise to address unique local challenges.

# YLM-VG 60 CELL

## ELECTRICAL PERFORMANCE

### Electrical parameters at Standard Test Conditions (STC)

Module type			YLM-VG-30b (xxx=P <sub>max</sub> )					
			285	290	295	300	305	310
Power output	P <sub>max</sub>	W	285	290	295	300	305	310
Power output tolerances	ΔP <sub>max</sub>	W	0 / + 5					
Module efficiency	η <sub>m</sub>	%	17.5	17.8	18.1	18.3	18.7	19.1
Voltage at P <sub>max</sub>	V <sub>mpp</sub>	V	31.8	32.2	32.5	32.6	32.9	33.2
Current at P <sub>max</sub>	I <sub>mpp</sub>	A	8.97	9.01	9.08	9.19	9.28	9.31
Open-circuit voltage	V <sub>oc</sub>	V	39.3	38.9	39.7	39.9	40.0	40.3
Short-circuit current	I <sub>sc</sub>	A	9.45	9.66	9.68	9.77	9.85	9.88

STC: 1000W/m<sup>2</sup> irradiance, 25°C cell temperature, AM1.5g spectrum according to EN 60904-3.  
Average relative efficiency reduction of 3.0% at 200W/m<sup>2</sup> according to EN 60904-1.

### Electrical parameters at Nominal Operating Cell Temperature (NOCT)

Power output	P <sub>max</sub>	W	213	216	220	223	227	230
Voltage at P <sub>max</sub>	V <sub>mpp</sub>	V	29.7	29.9	30.2	30.4	30.6	30.8
Current at P <sub>max</sub>	I <sub>mpp</sub>	A	7.17	7.23	7.28	7.35	7.42	7.47
Open-circuit voltage	V <sub>oc</sub>	V	36.5	36.7	36.9	37.1	37.3	37.5
Short-circuit current	I <sub>sc</sub>	A	7.62	7.67	7.71	7.78	7.84	7.89

NOCT: open-circuit module operation temperature at 800W/m<sup>2</sup> irradiance, 20°C ambient temperature, 1m/s wind speed.

## THERMAL CHARACTERISTICS

Nominal operating cell temperature	NOCT	°C	44 +/- 2
Temperature coefficient of P <sub>max</sub>	γ	%/°C	-0.39
Temperature coefficient of V <sub>oc</sub>	β <sub>Voc</sub>	%/°C	-0.29
Temperature coefficient of I <sub>sc</sub>	α <sub>Isc</sub>	%/°C	0.05

## OPERATING CONDITIONS

Max. system voltage	1000V / 1500V <sub>DC</sub>
Max. series fuse rating	15A
Limiting reverse current	15A
Operating temperature range	-40°C to 85°C
Max. static load, front (e.g., snow)	5400Pa
Max. static load, back (e.g., wind)	2400Pa
Max. hailstone impact (diameter / velocity)	25mm / 23m/s
Module fire performance	Type 1 (U.S.) / Class C (Canada)

## CONSTRUCTION MATERIALS

Front cover (material / thickness)	3.2mm, High transparency, anti-reflective coatings toughened glass
Cell (quantity / material / dimensions / number of busbars)	60 / monocrystalline silicon / 156.75mm x 156.75mm / 4 or 5
Frame (material)	Silver, anodized aluminum
Junction box (protection degree)	Protection level IP 68
Cable (length / cross-sectional area)	1000mm / 4mm <sup>2</sup>
Plug connector (type)	MC4 compatible

- 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.

## QUALIFICATIONS & CERTIFICATES



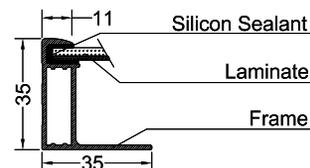
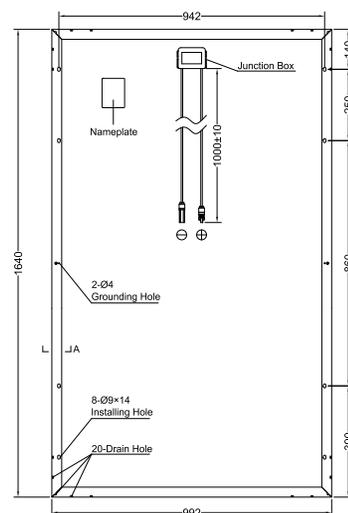
## GENERAL CHARACTERISTICS

Dimensions (L / W / H)	1640mm / 992mm / 35mm
Weight	18.6kg

## PACKAGING SPECIFICATIONS

Number of modules per pallet	30
Number of pallets per 40' container	28
Packaging box dimensions (L / W / H)	1680mm / 1130mm / 1123mm
Box weight	598kg

Unit: mm



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

Yingli Partners:

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**YINGLISOLAR.COM**

