YGE 60 CELL SERIES 2 MULTI-BUSBAR



IMPROVED POWER NEVER SETTLE FOR LESS

YGE multi-busbar series product, using multi-busbar design, reduced the cells silver paste consumption, improved cells efficiency, achieved the higher modules power output.

19.6%

CELL EFFICIENCY

10 YEAR

PRODUCT WARRANTY

0-5W

POWER TOLERANCE



High Power Density

Higher Durability

fingers broken.

High conversion efficiency and more power output per square meter, by lower series resistance and improved light harvesting.

The multi-busbar design can decrease the risk of the cell micro- cracks and



PID Resistant

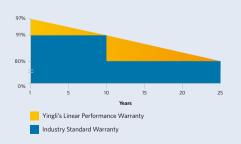
Tested in accordance to the standard IEC 62804, our PV modules have demonstrated resistance against PID (Potential Induced Degradation), which translates to security for your investment.



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.

25 Years Linear Warranty



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.

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ELECTRICAL PERFORMANCE

Electrical parameters at Standard Test Conditions (STC)								
Module type			YLXXXP12B-29b (XXX=Pmax)					
Power output	P _{max}	W	295	290	285	280	275	270
Power output tolerances	P _{max}	W	0/+5					
Module efficiency	η	%	18.0	17.7	17.4	17.1	16.8	16.5
Voltage at P _{max}	V _{mpp}	V	32.0	31.7	31.5	31.3	31.0	30.8
Current at P _{max}	I _{mpp}	Α	9.22	9.15	9.05	8.95	8.88	8.77
Open-circuit voltage	V _{oc}	V	38.5	38.4	38.2	38.0	37.8	37.7
Short-circuit current	I _{sc}	Α	9.74	9.65	9.55	9.45	9.36	9.26

STC: $1000W/m^2$ irradiance, $25^{\circ}C$ cell temperature, AM1.5g spectrum according to EN 60904-3. Average relative efficiency reduction of 3.3% at $200W/m^2$ according to EN 60904-1.

Electrical parameters at Nominal Operating Cell Temperature (NOCT)								
Power output	P _{max}	W	217.0	213.3	209.6	205.9	202.3	198.6
Voltage at P _{max}	V _{mpp}	V	29.4	29.1	29.0	28.8	28.5	28.3
Current at P _{max}	I _{mpp}	Α	7.38	7.32	7.24	7.16	7.10	7.02
Open-circuit voltage	V _{oc}	V	35.8	35.7	35.5	35.3	35.1	35.0
Short-circuit current	I _{sc}	Α	7.85	7.78	7.69	7.61	7.54	7.46

 $NOCT: open-circuit\ module\ operation\ temperature\ at\ 800W/m^2\ irradiance,\ 20^{\circ}C\ ambient\ temperature,\ 1m/s\ wind\ speed.$

THERMAL CHARACTERISTICS

Nominal operating cell temperature	NOCT	°C	46 +/- 2
Temperature coefficient of P _{max}	Υ	%/°C	-0.38
Temperature coefficient of V _{oc}	β_{Voc}	%/°C	-0.29
Temperature coefficient of I _{sc}	α_{lsc}	%/°C	0.03

OPERATING CONDITIONS

Max. system voltage	1000V _{DC}
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

CONSTRUCTION MATERIALS

Front cover (material / thickness)	low-iron tempered glass / 3.2mm		
Cell (quantity / material / dimensions / number of busbars)	60 / multicrystalline silicon / 156.75mm x 156.75mm(+/-0.25) / 12		
Frame (material)	anodized aluminum alloy		
Junction box (protection degree)	≥ IP67		
Cable (length / cross-sectional area)	1000mm / 4mm²		
Plug connector (type / protection degree)	MC4 / IP68 or YT08-1S / IP67 or Amphenol H4 / IP68 or Forsol SIKE4/ IP68 or Renhe RH05-6 / IP67		

- 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

IEC 61215, IEC 61730, CE, ISO 9001:2008, ISO 14001:2004, BS OHSAS 18001:2007, SA 8000









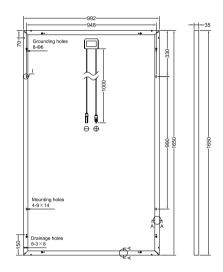
GENERAL CHARACTERISTICS

Dimensions (L / W / H)	1650mm/992mm/35mm		
Weight	18.5kg		

PACKAGING SPECIFICATIONS

Number of modules per pallet	30		
Number of pallets per 40' container	28		
Packaging box dimensions (L/W/H)	1700mm / 1135mm / 1165mm		
Box weight	588kg		

Unit: mm











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