

# YGE G/G 60CF

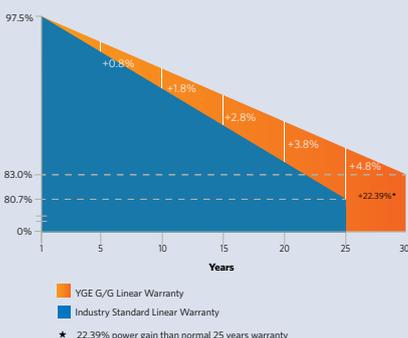


**18.5%**  
CELL EFFICIENCY

**10 YEAR**  
PRODUCT WARRANTY

**0-5W**  
POWER TOLERANCE

## 30 Years Linear Warranty



## DOUBLED STRENGTH FOR MULTIPLIED RELIABILITY

Whenever the conditions are requiring a more robust solution, our PV modules are the right choice. Carefully chosen materials, state of the art solar cells and our experience in manufacturing ensure in addition the high product quality.

**+  $\frac{W}{m^2}$  High Power Density**  
High efficiency, multicrystalline silicon cells with high transmission and textured glass could minimize installation costs and maximize kWh output of your system per unit area.

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

**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.

**Mechanical Performance**  
No shading aluminium frames enhance the mechanical performance of modules and the installation efficiency of system.

### Yingli Green Energy

Yingli Green Energy Holding Company Limited, 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.

# YGE G/G 60CF

## Electrical Performance

Electrical parameters at Standard Test Conditions (STC)								
Module type	YLxxxPG2530F-1 (xxx=Pmax)							
Power output	$P_{max}$	W	285	280	275	270	265	260
Power output tolerances	$\Delta P_{max}$	W	0 / + 5					
Module efficiency	$\eta_m$	%	17.2	16.9	16.6	16.3	16.0	15.7
Voltage at $P_{max}$	$V_{mpp}$	V	31.4	31.2	31.0	30.7	30.5	30.3
Current at $P_{max}$	$I_{mpp}$	A	9.08	8.98	8.90	8.80	8.70	8.59
Open-circuit voltage	$V_{oc}$	V	38.0	38.0	37.9	37.9	37.8	37.7
Short-circuit current	$I_{sc}$	A	9.51	9.43	9.35	9.27	9.18	9.09

STC: 1000W/m<sup>2</sup> irradiance, 25°C module temperature, AM1.5g spectrum according to EN 60904-3.  
Average relative efficiency reduction of 3.3% at 200W/m<sup>2</sup> according to EN 60904-1.

Electrical parameters at Nominal Operating Cell Temperature (NOCT)								
Power output	$P_{max}$	W	207.9	204.2	200.6	196.9	193.3	189.7
Voltage at $P_{max}$	$V_{mpp}$	V	28.6	28.4	28.2	28.0	27.8	27.6
Current at $P_{max}$	$I_{mpp}$	A	7.26	7.18	7.12	7.04	6.96	6.87
Open-circuit voltage	$V_{oc}$	V	35.1	35.1	35.0	35.0	34.9	34.8
Short-circuit current	$I_{sc}$	A	7.69	7.62	7.56	7.49	7.42	7.35

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	46 +/- 2
Temperature coefficient of $P_{max}$	$\gamma_{P_{max}}$	%/°C	-0.42
Temperature coefficient of $V_{oc}$	$\beta_{V_{oc}}$	%/°C	-0.32
Temperature coefficient of $I_{sc}$	$\alpha_{I_{sc}}$	%/°C	0.05

## OPERATING CONDITIONS

Max. system voltage	1500V <sub>DC</sub>
Max. series fuse rating	15A
Limiting reverse current	15A
Operating temperature range	-40°C to 85°C
Max. snow load, front	5400Pa
Max. wind load, back	2400Pa
Max. hailstone impact (diameter / velocity)	25mm / 23m/s

## CONSTRUCTION MATERIALS

Front cover (material / thickness)	low-iron semi-tempered glass / 2.5mm×2
Cell (quantity / material / dimensions / number of busbars)	60 / multicrystalline silicon / 156.75mm x 156.75mm (+/-0.25) / 4 or 5
Frame (material)	anodized aluminum alloy
Junction box (protection degree)	≥ IP67
Cable (length / cross-sectional area)	200mm / 4mm <sup>2</sup>
Plug connector (type / protection degree)	RH 05-8 / IP67 or LSC-R1 / IP68 or LSC-R4 / IP68

- 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



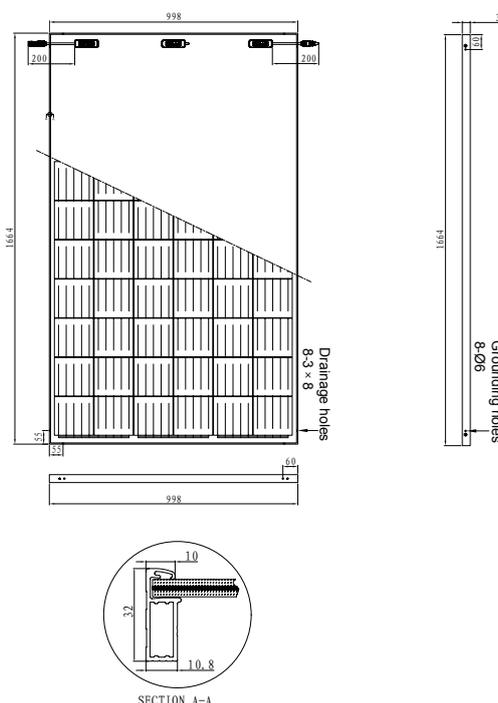
## GENERAL CHARACTERISTICS

Dimensions (L / W / H)	1664mm/998mm/32mm
Weight	24.5kg

## PACKAGING SPECIFICATIONS

Number of modules per pallet	32
Number of pallets per 40' container	26
Packaging box dimensions (L / W / H)	1730mm/1160mm/1165mm
Pallet weight	829kg

Unit: mm



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

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