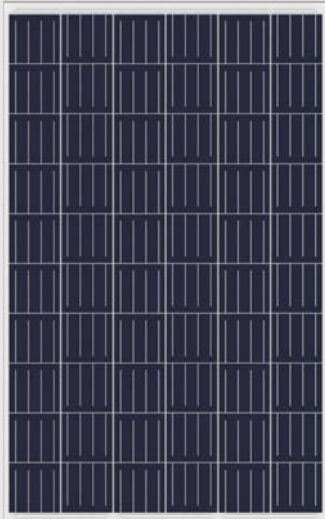


TwinMAX
60 CELL
STANDARD SERIES



18.0%
 CELL EFFICIENCY

10 YEAR
 PRODUCT WARRANTY

0-5W
 POWER TOLERANCE

MORE ENERGY
FORM DAWN UNTIL DUSK

TwinMAX standard panels deliver more efficient and stable performance, benefiting from high efficiency, four busbar multicrystalline silicon solar cells and dual tempered glasses structure.

+ $\frac{W}{m^2}$ High Module Efficiency
 High efficiency, four busbar multicrystalline silicon solar cells with high transmission and textured glass deliver a module efficiency of up to 16.4%, minimizing installation costs and maximizing the kWh output of your system per unit area.

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

PID Resistant
 Tested at 85°C temperature and 85% relative humidity for 96hrs beyond IEC standards, TwinMAX modules have demonstrated their resistance against PID, which provides greater investment security.

TwinMAX 30-YEAR LINEAR PERFORMANCE WARRANTY



About Gain Solar

Founded in 2007, Baoding Jiasheng Photovoltaic Technology Co., Ltd which markets its products under the brand "Gain Solar", is a wholly owned subsidiary of Yingli Solar, specializing in R&D, manufacturing and marketing of cutting-edge dual glass solar panels. Our company has developed over the years into a full-blown provider of dual glass PV modules, off-grid PV modules, building-integrated PV modules and off-grid PV systems. Founded on the Yingli Solar technology development, production, and distribution platform, Gain Solar has rapidly grown to set up branches in major provinces and cities of China and is now expanding its presence to the global level.

TwinMAX 60 CELL STANDARD SERIES

ELECTRICAL PERFORMANCE

Electrical parameters at Standard Test Conditions (STC)						
Module type		YLxxxPG-29b (xxx=P _{max})				
Nominal power	P _{max} [Wp]	270	265	260	255	250
Nominal power tolerances	ΔP _{max} [Wp]	0-+5				
Module efficiency	η _m [%]	16.37	16.06	15.76	15.46	15.15
Voltage at P _{max}	V _{mpp} [V]	31.7	31.4	31.1	30.9	30.7
Current at P _{max}	I _{mp} [A]	8.65	8.54	8.43	8.33	8.24
Open-circuit voltage	V _{oc} [V]	38.0	37.9	37.9	37.8	37.7
Short-circuit current	I _{sc} [A]	9.26	9.19	9.12	9.05	8.99

STC: 1000W/m², module temperature 25°C, AM1.5 - measurement tolerance +/- 3 %.
*Module values incl. effect of backside, depending on ground reflection (example values)

Electrical parameters at Nominal Operating Cell Temperature (NOCT)						
Nominal power	P _{max} [Wp]	197.0	193.3	189.7	186.0	182.4
Voltage at P _{max}	V _{mpp} [V]	28.9	28.7	28.4	28.2	28.1
Current at P _{max}	I _{mp} [A]	6.92	6.83	6.74	6.66	6.59
Open-circuit voltage	V _{oc} [V]	35.1	35.0	34.9	34.9	34.8
Short-circuit current	I _{sc} [A]	7.49	7.43	7.37	7.32	7.26

NOCT: 800W/m², ambient temperature 20 °C, AM 1.5 - measurement tolerance +/- 3 %.

THERMAL CHARACTERISTICS

Nominal operating cell temperature	NOCT	°C	46 +/- 2
Temperature coefficient of P _{max}	γ	%/°C	-0.42
Temperature coefficient of V _{oc}	β _{Voc}	%/°C	-0.32
Temperature coefficient of I _{sc}	α _{Isc}	%/°C	0.05
Temperature coefficient of V _{mpp}	β _{Vmpp}	%/°C	-0.42

OPERATING CONDITIONS

Max. system voltage	1500V _{DC}
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

*Load bearing capacity depends on installation

CONSTRUCTION MATERIALS

Glass (material / thickness)	low-iron tempered glass / 2.5mm×2
Cell (quantity / material / dimensions)	60 / Polysilicon / 156mm x 156mm
Encapsulant (material)	ethylene vinyl acetate (EVA)
Frame (material / color / anodization color)	N / A
Junction box (protection degree)	≥ IP67
Cable (positive length / negative length / cross-sectional area)	900mm / 900mm / 4mm ²
Plug connector (type / protection degree)	05-8 / 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, PV Cycle, SA 8000



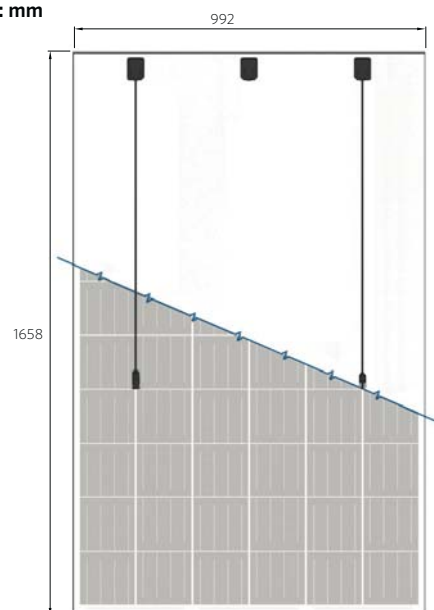
GENERAL CHARACTERISTICS

Dimensions (L / W / H)	1658mm / 992mm / 6mm
Weight	23kg

PACKAGING SPECIFICATIONS

Number of modules per pallet	30
Number of pallets per tractor-trailer	28
Number of pallets per flatbed (17.5m)	48
Packaging pallets dimensions (L / W / H)	1760mm / 1165mm / 1195mm
Pallet weight	730kg

Unit: mm



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

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