



## High-Performance Monocrystalline Silicon Panels for Residential and Commercial Projects

### Our Product Introduction

#### Basic Information

- Place of Origin: China
- Brand Name: GDQ
- Certification: IEC 61215 (2016) IEC 61730 (2016) ISO 9001:2015 ISO 45001:2018 ISO 14001:2015
- Model Number: Q565
- Minimum Order Quantity: 300 pcs
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T



GDQX-565W-585W Semiconductor efficient photovoltaic modules

#### Product Specification

- Maximum Power (Pmax): 565W To 585W
- Module Efficiency: Up To 22.6%
- Open-Circuit Voltage (Voc): 50.62V – 51.18V (STC)
- Short-Circuit Current (Isc): 14.21A – 14.49A (STC)
- Highlight: **residential monocrystalline silicon panels,  
residential monocrystalline silicon solar panels,  
commercial monocrystalline silicon panels**

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## Product Description

High-Performance Monocrystalline Silicon Panels for Residential and Commercial Projects

# 565W–585W

## Semiconductor efficient photovoltaic modules



**High efficiency & low attenuation**  
Power up to 585W with 22.6% efficiency



**Anti-PID**  
Preferred encapsulation materials and strict process solutions to ensure the module's PID resistance



**Stronger & More Reliable**  
Front side max 5400Pa ;Rear side max 2400Pa



**Excellent low light effect**  
Higher output in low light conditions such as overcast, morning and sunset

### Product Description

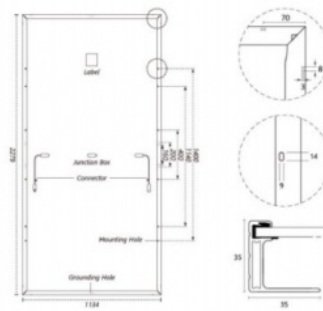
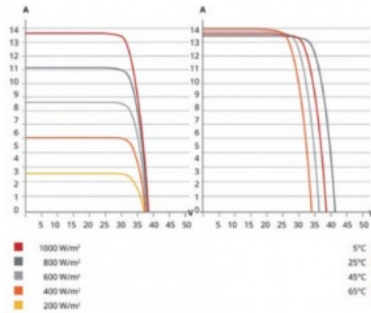
This high-efficiency monocrystalline silicon photovoltaic module offers a power output of 565W to 585W, with an impressive module efficiency of up to 22.6%. Designed with an anti-PID feature, the module ensures reliable performance by using advanced encapsulation materials that safeguard against potential-induced degradation. Its robust structure supports a front side load of up to 5400Pa and a rear side load of up to 2400Pa, making it ideal for areas with harsh environmental conditions. The module also provides excellent low-light performance, ensuring efficient power generation even under cloudy, morning, or sunset conditions. With long-term durability, this module guarantees optimal power output throughout its lifespan.

Mechanical specifications			
Cell Type	TOPCON 182*91mm	OPERATING PARAMETER	
No.Of Cells	144M(6*24)	Mox.System Voltage	1500V/DC
Junction Box	P68.3diodes	Operation Temperature	-40°C-85°C
Fame	Anodized fame	Max.Snow Lood(Font)	5400Pa
Weight	29Kg±3%	Max.Wind Load(Front)	3600Pa
Dimension	2279*1134*35mm	NOCT	45±2°C
Cable	4mm²350mmmin length.canbe customized	Customizable	Allblack,Double glass
Glass	Sngle glass.3.2mm high tansmission.antireflection coating		
ElectricalCharacteristics			
Module Type	120M		
	STC NOCI SIC NOCT SIC NOCT STC NOCT STC NOCT		
Maximum Power(Pmax)	565W 425W 570W 429W 575W 432W 580W 436W 585W 440W		
Maximum Power Voltage(Vmp)	41.98V 39.44V 42.13V 39.57V 42.28V 39.7V 42.43V 39.83V 42.58V 39.96V		
MaximumPower Curent Imp)	13.46V 10.78V 13.53V 10.84V 13.6V 10.89V 13.67V 10.95V 13.74V 11.01V		
Open-cicuit Voltoge (Voc)	50.62A 48.12A 50.76A 48.26A 50.9A 48.4A 51.04A 48.54A 51.18A 48.68A		
Short-cicuit Current(sc)	14.21A 11.47A 14.28A 11.54A 14.35A 11.61A 14.42A 11.68A 14.49A 11.74A		
	78.55% 78.64% 78.72% 78.81% 78.89%		
Module Efficiency STC(%)	21.86% 22.06% 22.25% 22.44% 22.64%		

Temperature Characteristics	
NMOT	45±2°C
Temp Coefficient of ISC	+0.05%/°C
Temp Coefficient of VOC	-0.28%/°C
Temp Coefficient of Pmax	-0.34%/°C
Modules/Palet	31 Pieces
Modules/40Cont ainer	620Pieces
Packoging Desciption	20 Pallets.Total=(31+31)*10=620Pleces

Maximum module efficiency	22.6%
First year power degradation	<1%
Decline year by year	<0.4%

Current-Voltage & Power-Voltage Curves



## Application

This photovoltaic module is perfect for large-scale solar power installations, residential rooftops, and commercial solar projects. It is suitable for environments with extreme weather conditions due to its high mechanical load capacity and anti-corrosion properties. This makes it a reliable choice for long-term solar energy production in various climates.

## Shipping Methods

Supports global air and sea shipping.



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