



## 22.5% Maximum Efficiency Monocrystalline Silicon Panels for Solar Power Generation

### 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: Q515
- Minimum Order Quantity: 300 pcs
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T



GDQX-515W-535W Semiconductor efficient photovoltaic modules

#### Product Specification

- Maximum Power Output (Pmax): 515W-535W
- Module Efficiency: Up To 22.5%
- Open Circuit Voltage (Voc): 46.4V - 46.72V (STC)
- Short Circuit Current (Isc): 13.71A - 14.23A (STC)
- Highlight: **515w monocrystalline silicon panels,**  
**515w monocrystalline silicon solar panels**

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## Product Description

22.5% Maximum Efficiency Monocrystalline Silicon Panels for Solar Power Generation

# 515W-535W

## Semiconductor efficient photovoltaic modules



**High efficiency & low attenuation**  
Power up to 535W with 22.5% 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 515W-535W semiconductor efficient photovoltaic module is designed to provide high performance in various light conditions. With a maximum module efficiency of 22.5%, the module can generate up to 535W of power with low attenuation. The front side is rated for a maximum pressure of 5400Pa, making it durable and suitable for harsh environmental conditions. Its anti-PID technology ensures reliable encapsulation to prevent potential induced degradation, and the module excels in low light environments such as cloudy days, morning, and sunset, enhancing its versatility.

| Mechanical specifications  |                                                                       |                       |                       |
|----------------------------|-----------------------------------------------------------------------|-----------------------|-----------------------|
| Cell Type                  | TOPCON 182*91mm                                                       | OPERATINGPARAMETER    |                       |
| No.Of Cels                 | 132 M(6*22)                                                           | Max.System Voltage    | 1500V/DC              |
| JunctionBox                | IP68.3 diodes                                                         | Operation Temperature | -40°C-85°C            |
| Frame                      | Anodized frame                                                        | Max Snow Load(Front)  | 5400Po                |
| Weight                     | 26.5Kg±3%                                                             | Max.Wnd Load(Front)   | 3600Pa                |
| Dimension                  | 2094*1134*35mm                                                        | NOCT                  | 45±2°C                |
| Cable                      | 4mm²,350mm in length can be customized                                | Customizable          | Al black.Double glass |
| Glass                      | Single gloss,3.2mmhigh transmission,antreflection coating             |                       |                       |
| Electical Characteristics  |                                                                       |                       |                       |
| Module Type                | 120M                                                                  |                       |                       |
|                            | STC NOCT SIC NOCT STC NOCT STC NOCT STC NOCT                          |                       |                       |
| Maximum Power(Pmax)        | 515W 387W 520W 391W 525W 395W 530W 399W 535W 403W                     |                       |                       |
| Maximum Power Voltage(Vmp) | 38.68V 36.13V 38.86V 36.3V 39.04V 36.47V 39.22V 36.64V 39.4V 36.81V   |                       |                       |
| Maximum Power Curent (imp) | 13.32V 10.71V 13.38V 10.77V 13.45V 10.83V 13.52V 10.89V 13.58V 10.95V |                       |                       |
| Open-crcuit Voltage (Voc)  | 46.41A 44.21A 46.59A 44.38A 46.77A 44.55A 46.95A 44.72A 47.13A 44.89A |                       |                       |
| Shont-cicuit Current(Isc)  | 14.05A 11.48A 14.11A 11.54A 14.17A 11.6A 14.23A 11.66A 14.29A 11.72A  |                       |                       |
|                            | 79.01% 79.09% 79.23% 79.37% 79.44%                                    |                       |                       |
| Module Efficiency SIC(%)   | 21.69% 21.90% 22.11% 22.32% 22.53%                                    |                       |                       |

| Temperature Characteristcs |                                       |
|----------------------------|---------------------------------------|
| NMOT                       | 45+2°C                                |
| Temp Coefficient ofISC     | +0.05%/°C                             |
| Temp Coefficient of VOC    | -0.28%/°C                             |
| Temp Coefficient of Pmax   | -0.34%/°C                             |
| Modules/Pallet             | 36 Pieces                             |
| Modules/40'Contain er      | 792Pieces                             |
| Packaging Description      | 22 Pallets.Total=(36+36)*11=792Pieces |

Maximum module efficiency

22.5%

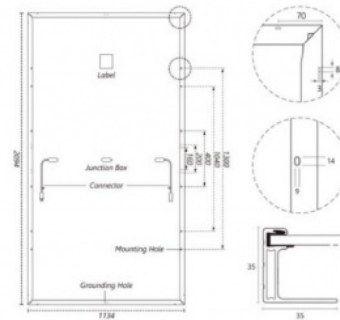
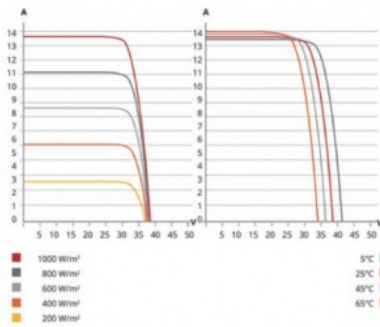
First year power degradation

<1%

Decline year by year

<0.4%

Current-Voltage & Power-Voltage Curves



### Application

Ideal for residential and commercial solar power generation systems, this module is built to deliver higher efficiency and reliability, particularly in environments with fluctuating light conditions. It is suitable for installations where durability and long-term performance are critical, including areas prone to harsh weather and mechanical stress.

### Shipping Methods

Supports global air and sea shipping.



**RICHGOOD ENERGY CO.,LTD**



[willa@fuhaosolar.com](mailto:willa@fuhaosolar.com)



[fuhaosolar.com](http://fuhaosolar.com)

Rm3810 Baoli E Building Pa Zhou Haizhu district Guangzhou