

**For a Free Quote:**

Web: [EnergyPal.com/solar](http://EnergyPal.com/solar)

Call: 1-800-990-3725

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# EnergyPal

## **Solar Panel Guide Specification Data Sheet**

**Cetesolar Co., Ltd.  
Cetesolar 72 310-335W Poly  
CS320P-72DG**

Also available on the web at  
[EnergyPal.com/cetesolar-co-ltd-solar-panels/cs320p-72dg](http://EnergyPal.com/cetesolar-co-ltd-solar-panels/cs320p-72dg)

# DUAL-GLASS MODULE



## Cetesolar 72 310-335 Watt POLY CRYSTALLINE MODULE

Positive power tolerance of 0~+3%

ISO9001:2008, ISO14001:2004, OHSAS18001  
certified factory.  
IEC61215, IEC61730 certified products.

(4BB)



### KEY FEATURES



#### PID FREE:

The possibility of PID effect generation is greatly reduced by unique frameless design.



#### Higher Lifetime Power Yield:

0.5% annual power degradation  
30 year linear power warranty



#### Saving BOS Cost:

Designed for high voltage systems of up to 1500 VDC, saving BOS cost



#### Improved Durability and Reliability:

Dual glass reduces micro-cracking, snail trails, corruptions caused by moisture, sand, salt mist, acid, alkali, etc. The optional Solar Super Shell Tape designed for dual glass module edge sealing helps prevent water vapor from entering the module and improve the reliability significantly.



#### Less Maintenance Requirement:

Reduced soiling and snow coverage requires less maintenance and enhances fire safety



#### Aesthetically Pleasing Design:

White encapsulation material maximizes module efficiency up to 17.26% (72-poly max. output 335W); Transparent EVA increases light transmission, ideal for installations requiring light to pass through

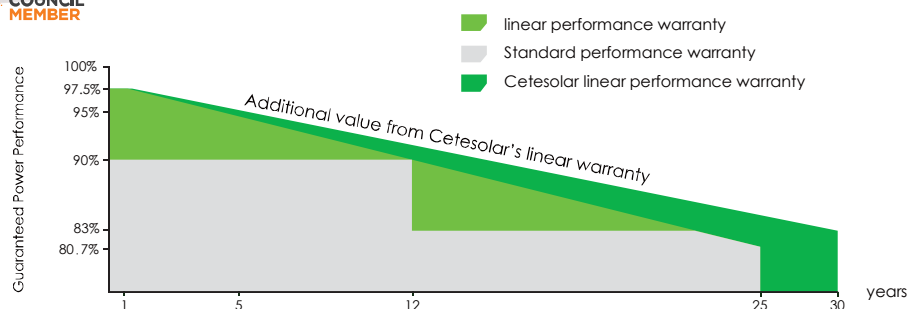


#### Strengthened Mechanical Support:

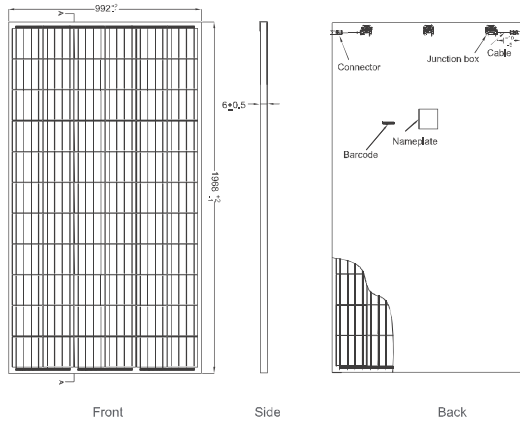
5400 Pa snow load, 2400 Pa wind load

### LINEAR PERFORMANCE WARRANTY

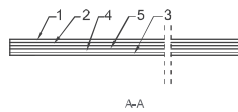
10 Year Product Warranty • 30 Year Linear Power Warranty  
0.5% Annual Degradation Over 30 years



## Engineering Drawings



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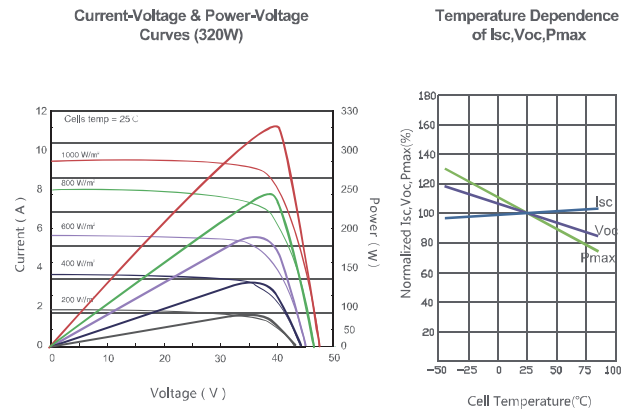
\*If using shell tape, length and width will add 2mm respectively, thickness will add to 8mm.

## Packaging Configuration

( Two boxes=One pallet)

30pcs/box, 60pcs/pallet, 660 pcs/ 40'HQ Container

## Electrical Performance & Temperature Dependence



## Mechanical Characteristics

Cell Type	Poly-crystalline 156×156mm (6 inch)
No. of cells	72 (6×12)
Dimensions	1968×992×6mm(77.48×39.05×0.24 inch, 2.5mm Glass)
Weight	28kg(61.7 lbs, 2.5mm Glass)
Front Glass	2.5mm High transmission, Anti-Reflection coating, semi-tempered glass
Back Glass	2.5mm Semi-tempered glass
Junction Box	IP67 Rated
Output Cables	TUV 1×4.0mm <sup>2</sup> positive - 250mm, negative- 150mm or customized

## SPECIFICATIONS

Module Type	CS310P-72DG		CS315P-72DG		CS320P-72DG		CS325P-72DG		CS330P-72DG		CS335P-72DG	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	310Wp	231Wp	315Wp	235Wp	320Wp	238Wp	325Wp	242Wp	330Wp	246Wp	335Wp	250Wp
Maximum Power Voltage (Vmp)	37.0V	33.9V	37.2V	34.3V	37.4V	34.7V	37.6V	35.0V	37.8V	35.3V	38.0V	35.6V
Maximum Power Current (Imp)	8.38A	6.81A	8.48A	6.84A	8.56A	6.86A	8.66A	6.91A	8.74A	6.97A	8.82A	7.02A
Open-circuit Voltage (Voc)	45.9V	42.7V	46.2V	43.2V	46.4V	43.7V	46.7V	44.0V	46.9V	44.2V	47.2V	44.4V
Short-circuit Current (Isc)	8.96A	7.26A	9.01A	7.29A	9.05A	7.30A	9.1A	7.34A	9.14A	7.38A	9.18A	7.43A
Module Efficiency STC (%)	15.98%		16.23%		16.49%		16.75%		17.01%		17.26%	
Operating Temperature(°C)	-40°C~+85°C											
Maximum system voltage	1000(or 1500)VDC (IEC)											
Maximum series fuse rating	15A											
Power tolerance	0~+3%											
Temperature coefficients of Pmax	-0.40%/°C											
Temperature coefficients of Voc	-0.30%/°C											
Temperature coefficients of Isc	0.06%/°C											
Nominal operating cell temperature (NOCT)	45±2°C											

\* STC: Irradiance 1000W/m<sup>2</sup> Cell Temperature 25°C AM=1.5

NOCT: Irradiance 800W/m<sup>2</sup> Ambient Temperature 20°C AM=1.5 Wind Speed 1m/s

\* Power measurement tolerance: ± 3%

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