

**For a Free Quote:**

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

Call: 1-800-990-3725

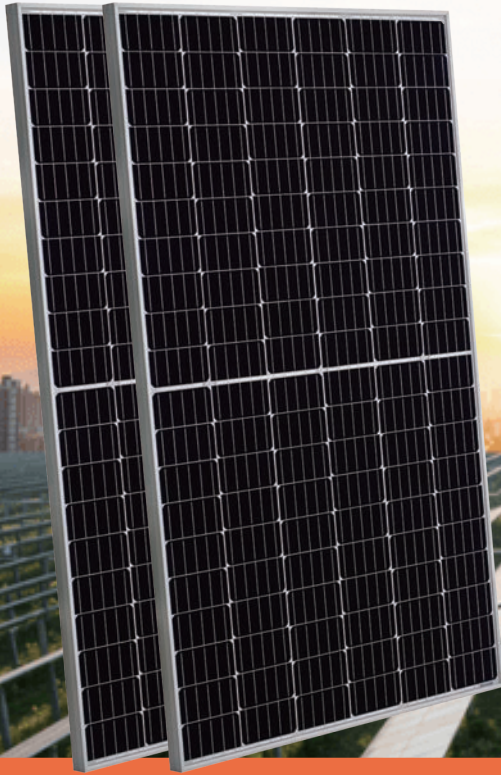
Email: [contact@energypal.com](mailto:contact@energypal.com)

# **EnergyPal**

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

**BQ Solartech Co., Ltd.  
BQ320-335 HALF CELL  
BQ325- HCP158**

Also available on the web at  
[EnergyPal.com/bq-solartech-co-ltd-solar-panels/bq325-hcp158](http://EnergyPal.com/bq-solartech-co-ltd-solar-panels/bq325-hcp158)



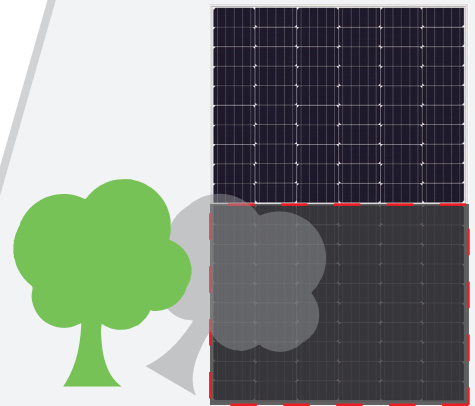
# BQ320-335 HALF CELL

## Features

- advanced technology to improve module efficiency, higher efficiency during cloudy days
- Perfect choice for utility and commercial, residential projects.
- Lower installation cost and limited power degradation
- excellent anti-PID performance
- Reduce power loss and hot spot effect
- Less mismatch loss

Half cell series comprise two separated and identical solar cell arrays, which means the ordinary strings of cells are cut into halves, and these shorter strings compose arrays which has separated current paths. When a module is shaded, only one side shaded array's current will be impacted, while the other array will still be functionally producing power. Under this circumstance, when a module is shaded, the affected working areas of half cell series will reduce 50%.

## BQ Half Cell Module



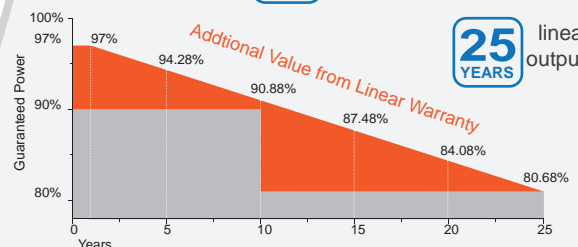
## Warranty

**15**  
YEARS

Guarantee on product material and workmanship

**25**  
YEARS

linear power output warranty

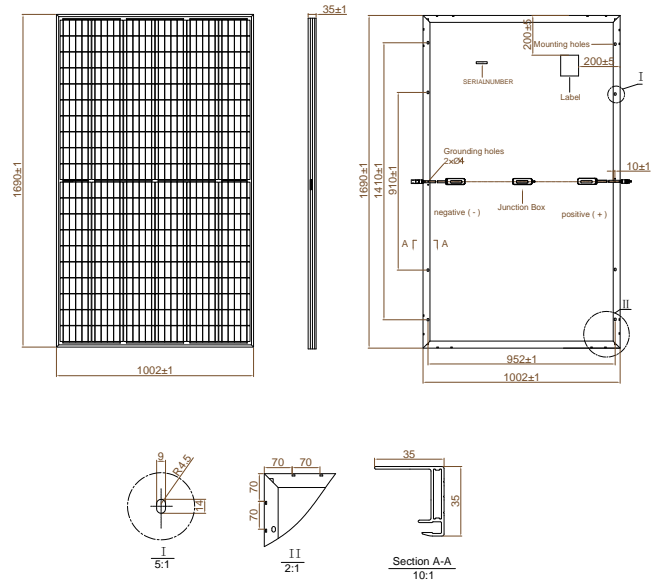


## Temperature Characteristics

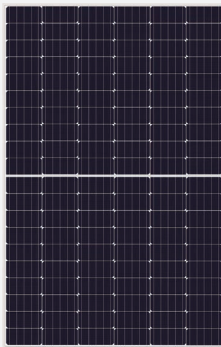
Pmax Temperature Coefficient	-0.38 %/°C
Voc Temperature Coefficient	-0.28 %/°C
Isc Temperature Coefficient	+0.05 %/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature (NOCT)	45±2 °C

## Mechanical Specifications

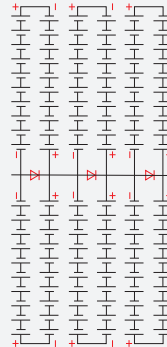
External Dimensions	1690 x 1002 x 35 mm
Weight	19.0kg
Solar Cells	PERC Mono crystalline 158.75 x 79.375 mm (120pcs)
Front Glass	3.2 mm AR coating tempered glass, low iron
Frame	Anodized aluminium alloy
Junction Box	IP68, 3 diodes
Output Cable	4.0 mm <sup>2</sup> , Portrait: 255mm(+)/355mm(-); Landscape: 1200mm
Connector	MC4 Compatible
Mechanical Load	5400 Pa



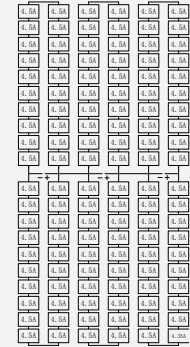
## BQ320-335 Half Cell



Design Sketch



Circuit Diagram



Electrical Mismatch

Module current output is 4.5+4.35=8.85A, current mismatch in series is **0.15A**

Module Type		BQ320-HCP158	BQ325-HCP158	BQ330-HCP158	BQ335-HCP158
Max power	Pm(WP)	320	325	330	335
Opencircuit voltage	Voc(V)	40.4	40.6	40.8	41
Short-circuit current	Isc(A)	9.93	10.02	10.11	10.2
Voltage at max power	Vmp(V)	34	34.2	34.4	34.6
Current at max power	Imp(A)	9.42	9.51	9.6	9.69
Module efficiency	(%)	18.9	19.19	19.49	19.78
Power Tolerance		(0,+4.98)			
System voltage	(V)	1000VDC/1500VDC			
Fuse Rating	(A)	20A			

### I-V Curve

