

PCA-A Series

Design Features

Maximized Power Output

- Monocrystalline cells with 16.0% efficiency give highest power output even in low light conditions
- Individual cell outputs matched for optimal module performance
- Antireflective coating and highly transparent glass maximize energy yield

Robust, Reliable Construction

- Extra thick 46mm anodized aluminium frame
- Strengthened glass and protective back sheet prevent damage and water ingress
- Junction box filled with silicon gel
- Gasket provides extra protection against water ingress

Highest Quality Standards

- Conforms to IEC 61215 and Safety Class II electrical and mechanical performance standards for 25-year outdoor operation
- Manufactured in Japan in ISO 9001 certified facilities
- Every YOCASOL module undergoes visual and electrical testing before delivery

Seamless System Integration

- 4 holes in frame for easy installation in all system configurations
- Fitted with standard MC connectors and 1m cable
- 3 diodes in junction box to minimize system power loss from module shading



Characteristics

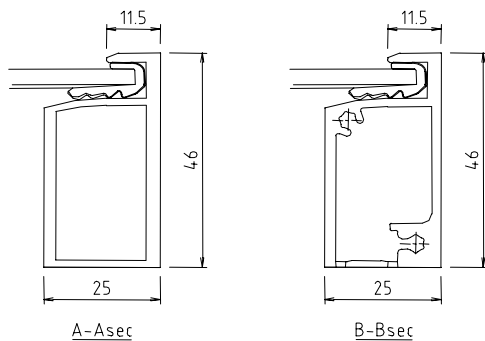
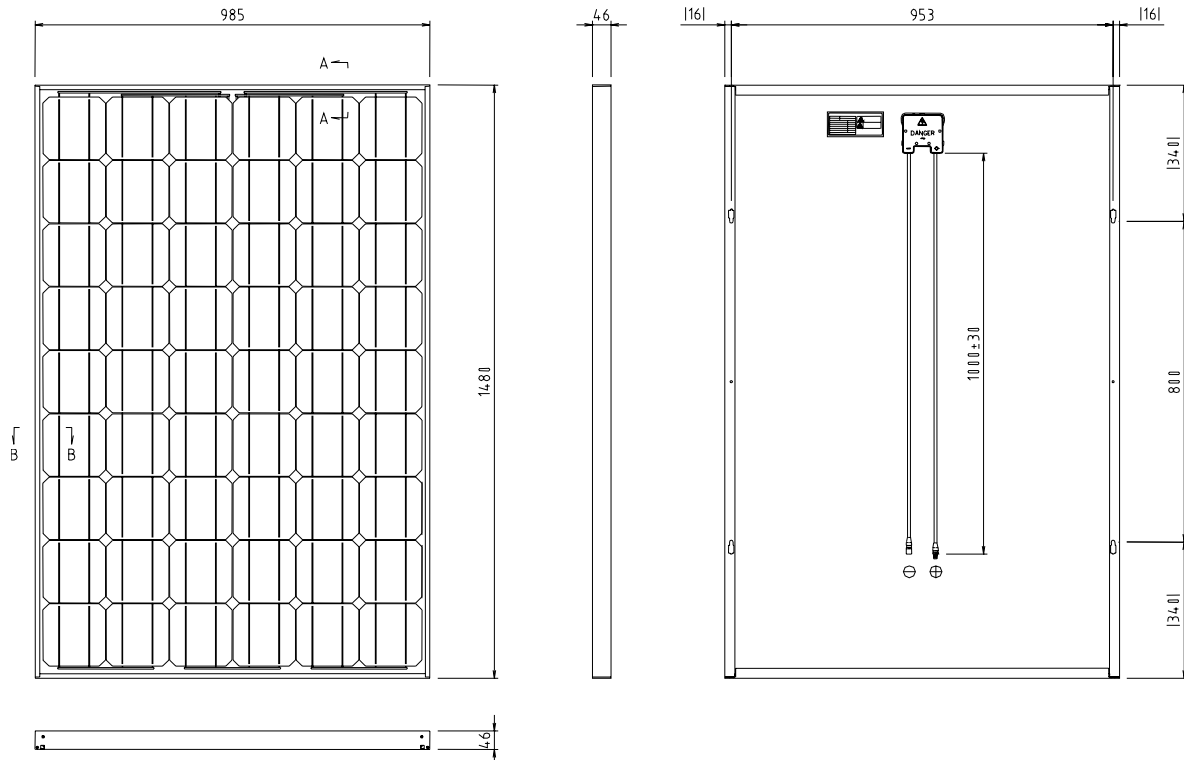
Dimensions	
Length	1480mm (tolerance +/-3mm)
Width	985mm (tolerance +/-3mm)
Depth	46mm
Weight	19kg
Standard operating conditions*	
Temperature	-20 ~ +40°C
Operating humidity	45 ~ 95%RH
Special environments	Avoid excess exposure to smoke, dust, saltwater
Maximum system voltage	DC1000V
Insulation performance	
Insulation resistance	50MΩ at 500VDC
Ability to withstand voltage	3000V for 1 minute
Mechanical data	
Maximum snow load	1602Pa (163kgf/m ²)
Maximum wind load	2404Pa (244kgf/m ²)

* maximum performance limits conform to IEC 61215 standards

Electrical Characteristics

Model No.	190A	195A	200A	205A	210A	tolerance
Maximum output	190W	195W	200W	205W	210W	97% or over
Maximum power voltage	25.6V	25.7V	25.7V	25.8V	25.8V	—
Maximum power current	7.42A	7.60A	7.78A	7.96A	8.14A	—
Open circuit voltage	32.7V	32.8V	32.8V	32.9V	32.9V	±10%
Short circuit current	8.62A	8.65A	8.68A	8.71A	8.74A	90% or over

* measured at standard test conditions of 1000W/m² irradiance, AM1.5 spectrum, 25°C cell temperature



Construction

item	number	comment
cell	54	156 x 156 monocrystalline
front cover	1	strengthened patterned glass t3.2
back cover	1	white
filler	xx	EVA resin
frame	1set	46mm clear anodized aluminium
edge filler	xx	gasket
+ output wire	1	eco 4 sq. MC connector
- output wire	1	eco 4 sq. MC connector
junction box	1	
bypass diode	3	1000V



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