

PCB Series

Design Features

Maximized Power Output

- Polycrystalline cells with 15.2% 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 long-term 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

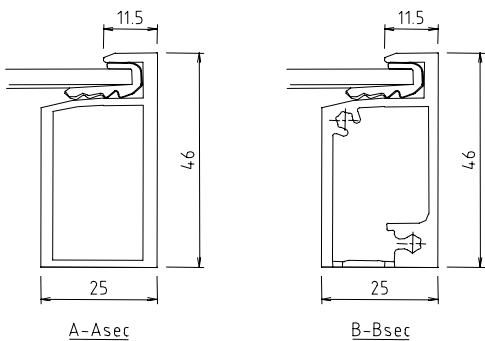
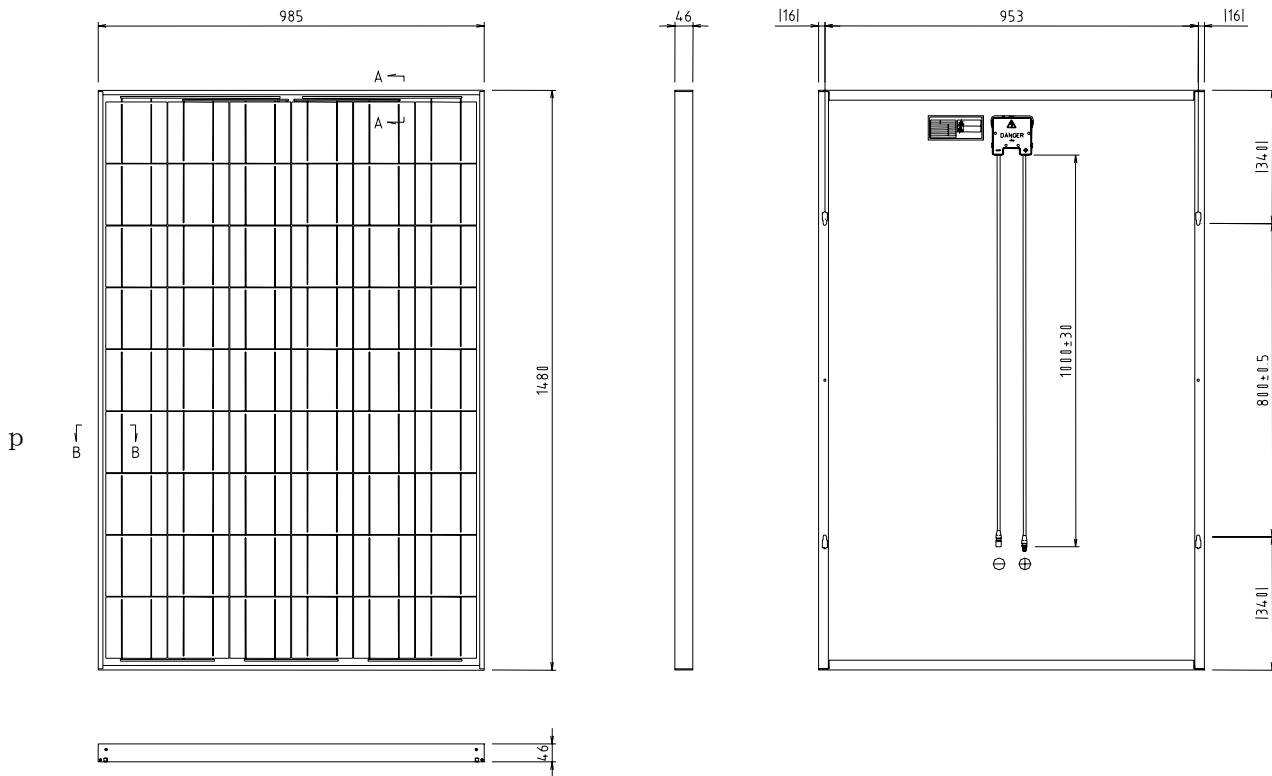
Dimensions	
Length	1480mm (tolerance +/-3mm)
Width	985mm (tolerance +/-3mm)
Depth	46mm
Weight	19kg
Standard operating conditions*	
Temperature	-20 ~ +40°C
Operating humidity	45 ~ 95%RH
Special environments	Avoid excess exposure to smoke, dust, saltwater
Maximum system voltage	DC1000V
Insulation performance	
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

	PCB180	PCB185	PCB190	PCB195	PCB200	tolerance
Maximum output	180W	185W	190W	195W	200W	+5% -3%
Maximum power voltage	25.6V	25.7V	25.8V	26.0V	26.2V	—
Maximum power current	7.03A	7.20A	7.36A	7.50A	7.63A	—
Open circuit voltage	32.0V	32.1V	32.3V	32.5V	32.7V	±10%
Short circuit current	8.04A	8.10A	8.18A	8.26A	8.36A	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 polycrystalline
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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