

LDAxxx-A11



Characteristics

Dimensions

Length	1580 mm (tolerance +/-3 mm)
Width	802 mm (tolerance +/-3 mm)
Depth	46 mm
Weight	19 kg

Standard operating conditions*

Standard operating conditions*	Avoid excess exposure to smoke, dust, saltwater
Maximum system voltage	DC1000V

Insulation performance

Insulation resistance	50 MΩ at 500 VDC
Ability to withstand voltage	3000 V for 1 minute

Temperature coefficient

Voc(Open circuit voltage)	-0.34%
Isc(Short circuit current)	+0.09%
Pmax(Maximum power output)	-0.37%

*maximum performance limits conform to IEC 61730 standards



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 46 mm 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

- IEC 61730, electrical and mechanical performance standards for long-term outdoor operation
- Manufactured in Japan, certified according to ISO 9001:2000
- Every YOCASOL module is inspected visually and tested electrically before delivery
- IP protection: IP65

Seamless System Integration

- Fitted with standard MC3 connectors and a cable of about 1m
- 3 bypass diodes in junction box to minimize system power loss caused by shading of module

Warranty

In accordance with our limited warranty conditions (available on request):

- Materials & Workmanship - 2 years
- 90% of the specified min. output power - 10 years
- 80% of the specified min. output power - 25 years

Eco -Friendly

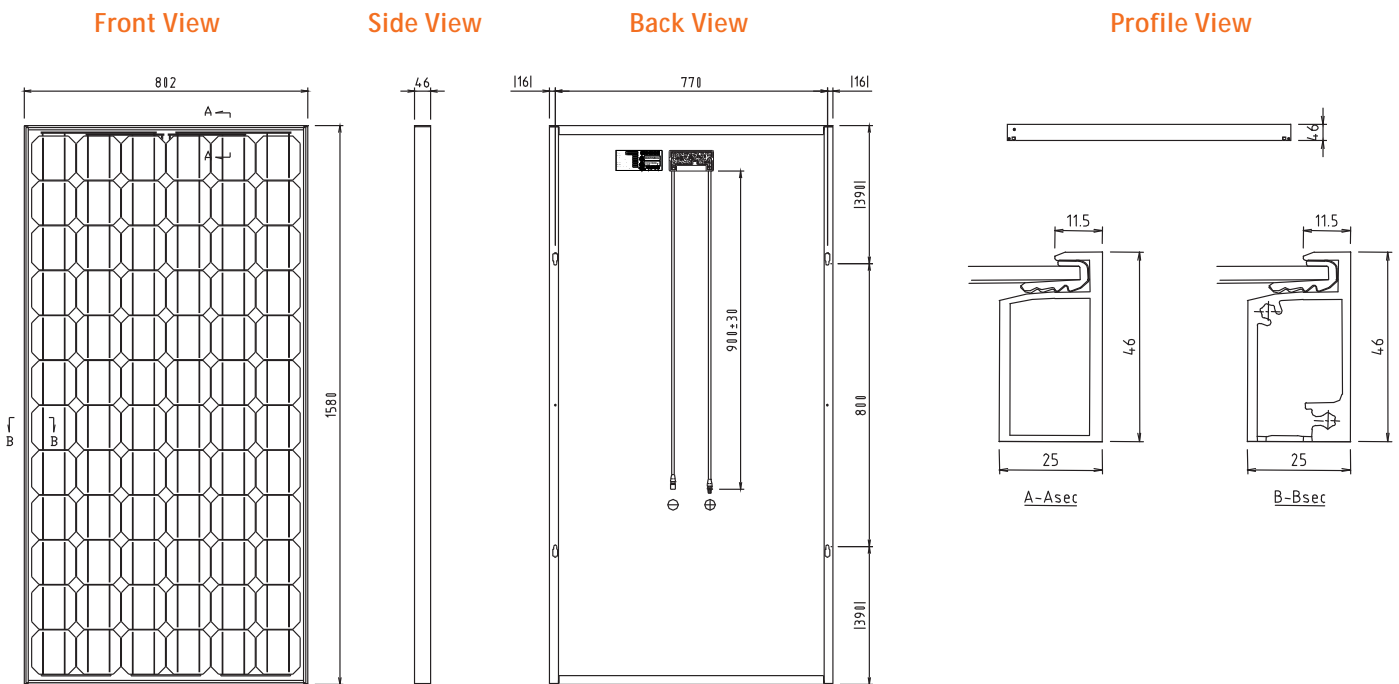
- Using Lead-Free solder

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Electrical Characteristics

	LDA160	LDA165	LDA170	LDA175	LDA180	tolerance
Maximum output	160 W	165 W	170 W	175 W	180 W	+5 % -3 %
Maximum power voltage	34.6 V	34.8 V	35.1 V	35.3 V	35.6 V	-
Maximum power current	4.63 A	4.75 A	4.85 A	4.96 A	5.07 A	-
Open circuit voltage	43.8 V	44.0 V	44.3 V	44.5 V	44.8 V	±10%
Short circuit current	5.22 A	5.33 A	5.44 A	5.55 A	5.66 A	90% or over
Conversion efficiency	12.6%	13.0%	13.4%	13.8%	14.2%	-

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



Construction

item	number	comment
cell	72	125 mm x 125 mm monocrystalline, Motech
front cover	1	strengthened patterned glass t3.2
back cover	1	white
filler		EVA resin
frame	1	46 mm clear anodized aluminium
edge filler		gasket
+ output wire	1	eco 4 sq, MC3 connector
- output wire	1	eco 4 sq, MC3 connector
junction box	1	
bypass diode	3	1000 V

Tested Operating Conditions

temperature	-40°C - +85°C*
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* This temperature range was applied during the Temperature Cycle Test



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