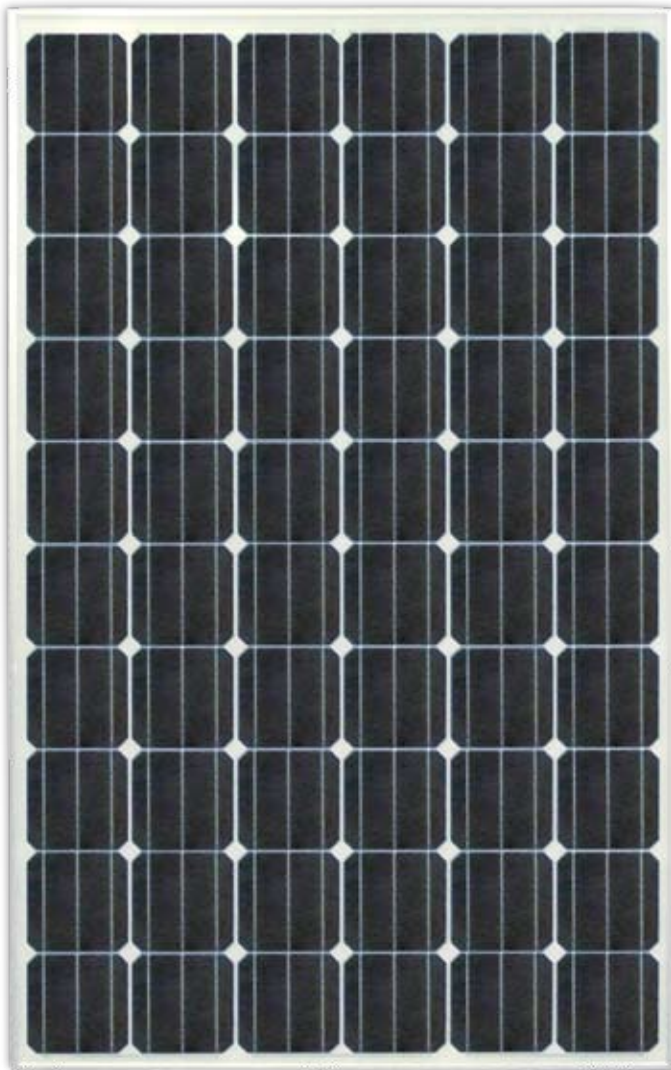


## 60-cell monocrystalline module family

### PEA series



The photo is showing PEA

#### Characteristics

##### Dimensions

|        |                           |
|--------|---------------------------|
| Length | 1650mm (tolerance +/-3mm) |
| Width  | 995mm (tolerance +/-3mm)  |
| Depth  | 46mm                      |
| Weight | 26kg                      |

##### Standard operating conditions\*

|                                |   |
|--------------------------------|---|
| Standard operating conditions* | Avoid excess exposure to smoke, dust, saltwater |
|--------------------------------|---|

|                        |         |
|------------------------|---------|
| Maximum system voltage | DC1000V |
|------------------------|---------|

##### Insulation performance

|                              |                        |
|------------------------------|------------------------|
| Insulation resistance        | 50 MΩ or over (DC500V) |
| Ability to withstand voltage | DC3000V for 1 min      |

##### Thermal characteristics

|      |      |
|------|------|
| NOCT | 47°C |
|------|------|

##### Temperature coefficient

|                             |              |
|-----------------------------|--------------|
| Voc (Open circuit voltage)  | - 0.37% / °C |
| Isc (Short circuit current) | +0.03% / °C  |
| Pmax (Maximum power output) | - 0.51% / °C |

\*maximum performance limits conform to IEC 61215 standards



#### Design Features:

##### Maximized Power Output

- Monocrystalline cells with 16 - 17.5% efficiency give highest power output even in low light conditions
- Individual cell outputs matched for optimal module performance
- Highly transparent glass maximizes energy yield

##### Robust, Reliable Construction

- Extra thick 46mm anodized aluminium frame
- Strengthened glass and protective back sheet prevent damage and water ingress
- Gasket provides extra protection against water ingress

##### Seamless System Integration

- Fitted with Tyco Slim Line connectors
- 3 bypass diodes in junction box to minimize system power loss caused by shading of module

#### Warranty

In accordance with our limited warranty conditions

- Materials & Workmanship - 5 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

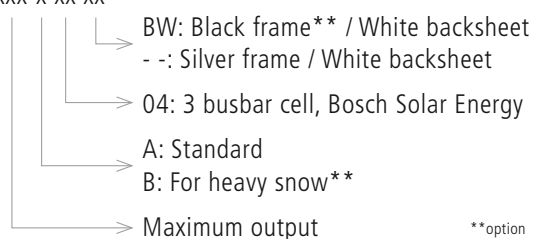
#### Certification

- Module Certificates IEC61215 ed2, IEC61730, CE
- Factory Certificates ISO9001:2000
- Manufactured in Japan



#### Model Name Description

PEAxxx-x xx xx

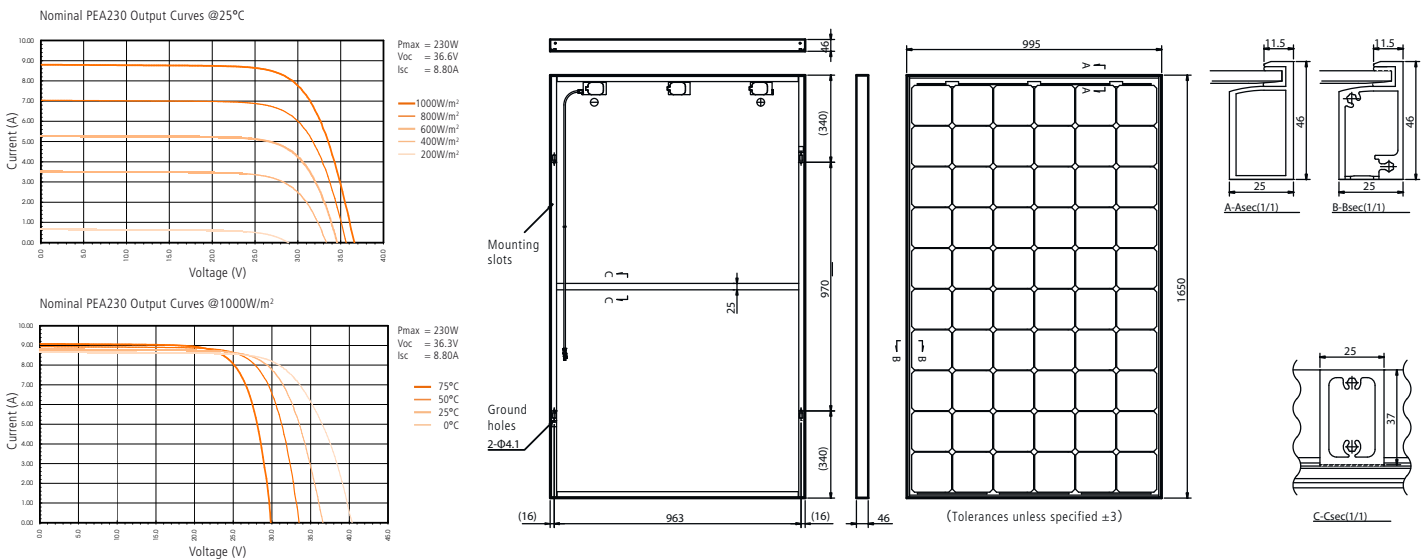


\*\*option

## PEA series

### Electrical Characteristics

|   | PEA215 | PEA220 | PEA225 | PEA230 | PEA235 | PEA240 | tolerance   |
|---|--------|--------|--------|--------|--------|--------|-------------|
| At standard test conditions of 1000W/m <sup>2</sup> irradiance, AM1.5 spectrum, 25°C cell temperature (STC)                               |        |        |        |        |        |        |             |
| Maximum output  | 215W   | 220W   | 225W   | 230W   | 235W   | 240W   | +5% -3%     |
| Maximum power voltage   | 28.3V  | 28.5V  | 28.7V  | 29.1V  | 29.3V  | 29.5V  | -           |
| Maximum power current   | 7.60A  | 7.71A  | 7.83A  | 7.91A  | 8.03A  | 8.13A  | -           |
| Open circuit voltage  | 35.8V  | 36.0V  | 36.1V  | 36.6V  | 36.6V  | 36.9V  | ±10%        |
| Short circuit current   | 8.52A  | 8.56A  | 8.64A  | 8.80A  | 8.95A  | 8.98A  | 90% or over |
| At nominal operating cell temperature of 800W/m <sup>2</sup> irradiance, AM1.5 spectrum, 20°C ambient temperature, 1m/s wind speed (NOCT) |        |        |        |        |        |        |             |
| Maximum output  | 151W   | 155W   | 159W   | 162W   | 166W   | 169W   | -           |
| Maximum power voltage   | 24.6V  | 24.8V  | 25.0V  | 25.3V  | 25.5V  | 25.7V  | -           |
| Maximum power current   | 6.13A  | 6.22A  | 6.32A  | 6.38A  | 6.48A  | 6.56A  | -           |
| Open circuit voltage  | 31.6V  | 31.8V  | 31.9V  | 32.4V  | 32.4V  | 32.6V  | -           |
| Short circuit current   | 6.82A  | 6.85A  | 6.91A  | 7.04A  | 7.16A  | 7.19A  | -           |
| Conversion Efficiency   | 13.1   | 13.4   | 13.7   | 14.0   | 14.3   | 14.6   | -           |



### Construction

| item          | number | comment   |
|---------------|--------|---|
| cell          | 60     | 156mm x 156mm monocrystalline, Bosch Solar Energy |
| front cover   | 1      | strengthened patterned glass                      |
| back cover    | 1      | white   |
| filler        |        | EVA resin   |
| frame         | 1      | 46mm anodized aluminium                           |
| edge filler   |        | gasket  |
| + output wire | 1      | eco 4sq, Tyco Electronics                         |
| - output wire | 1      | Silm Line Connector                               |
| junction box  | 3      | IP65  |
| bypass diode  | 3      | 45V   |

### Tested Operating Conditions

|             |                |
|-------------|----------------|
| temperature | -40°C - +85°C* |
|-------------|----------------|

\* This temperature range was applied during the Temperature Cycle Test



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