

# SOLAR PANELS

A range of high performance UK manufactured silicon cell solar panels

## Aluminium Framed

- High quality mono crystalline silicon cell modules
- Lightweight aluminium frame
- IP65 junction box includes bypass diodes
- 4mm low iron toughened glass maximising panel efficiency and strength

CBSPGF/05

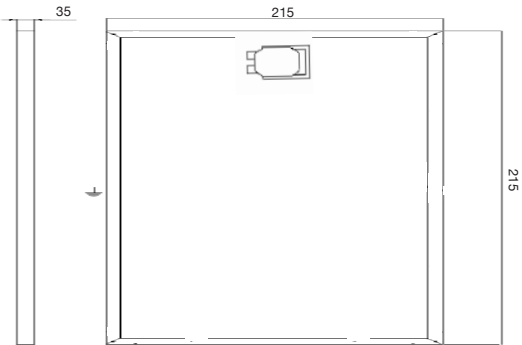


### CBSPGF/05 - 5w Solar Panel

SPECIFICATION	5W
Maximum Power (Pmax) (W)	5
Voltage at Max Power (Vmp)	19.58
Current at Max Power (Imp)	0.26
Voltage at open circuit (Voc)	23.08
Current at short circuit (Isc)	0.28
Cell Efficiency (%)	19.6
Panel Efficiency (%)	8.9
Temp. Co-eff. Current (%/C)	0.05
Temp. Co-eff. Voltage (%/C)	-0.33
Temp. Co-eff. Power (%/C)	-0.42
Operating Temperature	-40* +85°C
Bypass Diodes	1
Dimensions	215mm (L) x 215mm (W) x 35mm (D)
Weight	1.2kg
Quality	Manufactured in our ISO 9001-2015 and ISO 14001 certified factory. Complies with TUV sUD accreditation, IEC 61215 and IEC 61730 MCS accredited BABT 8501

#### Typical Applications:

- Signage & lighting
- Leisure/ expedition vehicles
- Outdoor recreation
- Remote/ unmanned equipment
- Marine



PCB  
TERMINAL  
BLOCKS

INTER-  
CONNECTION

FUSES &  
FUSE-  
HOLDERS

LEDs &  
INDICATORS

MINIATURE  
SWITCHES

LIMIT &  
SAFETY  
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CONTROL  
PRODUCTS

INTERFACE  
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RELAY  
BASES

DIN RAIL  
ENCLOSURES

BATTERIES

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TRANS-  
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CBSPGF/20

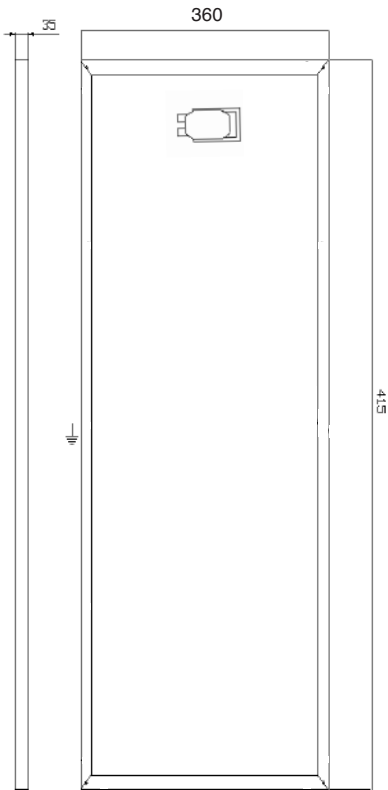


## CBSPGF/20 - 20w Solar Panel

SPECIFICATION	20W
Maximum Power (Pmax) (W)	20
Voltage at Max Power (Vmp)	19.58
Current at Max Power (Imp)	1.03
Voltage at open circuit (Voc)	23.08
Current at short circuit (Isc)	1.09
Cell Efficiency (%)	19.6
Panel Efficiency (%)	13.5
Temp. Co-eff. Current (%/C)	0.05
Temp. Co-eff. Voltage (%/C)	-0.33
Temp. Co-eff. Power (%/C)	-0.42
Operating Temperature	-40° +85°C
Bypass Diodes	1
Dimensions	415mm (L) x 360mm (W) x 35mm (D)
Weight	2.5kg
Quality	Manufactured in our ISO 9001-2015 and ISO 14001 certified factory. Complies with TUV sUD accreditation, IEC 61215 and IEC 61730 MCS accredited BABT 8501

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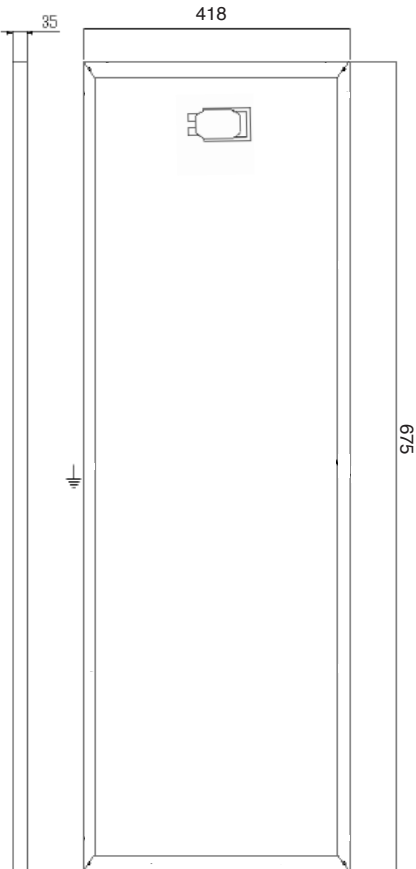
### CBSPGF/30 - 30w Solar Panel

SPECIFICATION	30W
Maximum Power (Pmax) (W)	30
Voltage at Max Power (Vmp)	19.58
Current at Max Power (Imp)	1.58
Voltage at open circuit (Voc)	23.08
Current at short circuit (Isc)	1.67
Cell Efficiency (%)	19.6
Panel Efficiency (%)	10.8
Temp. Co-eff. Current (%/C)	0.05
Temp. Co-eff. Voltage (%/C)	-0.33
Temp. Co-eff. Power (%/C)	-0.42
Operating Temperature	-40° +85°C
Bypass Diodes	1
Dimensions	675mm (L) x 418mm (W) x 35mm (D)
Weight	4.0kg
Quality	Manufactured in our ISO 9001-2015 and ISO 14001 certified factory. Complies with TUV sUD accreditation, IEC 61215 and IEC 61730 MCS accredited BABT 8501

#### Typical Applications:

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CBSPGF/30



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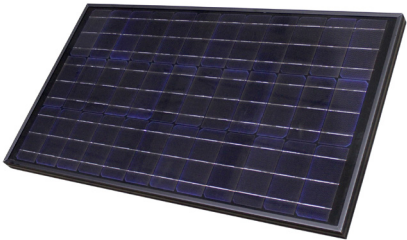
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CBSPGF/80

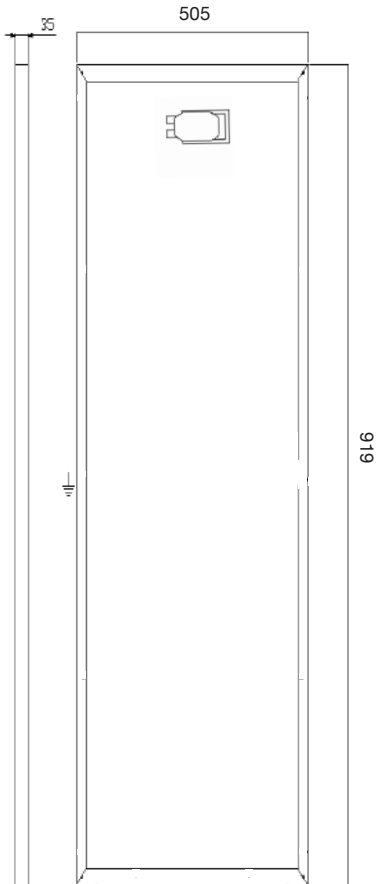


## CBSPGF/80 - 80w Solar Panel

SPECIFICATION	80W
Maximum Power (Pmax) (W)	80
Voltage at Max Power (Vmp)	17.57
Current at Max Power (Imp)	4.59
Voltage at open circuit (Voc)	22.1
Current at short circuit (Isc)	4.71
Cell Efficiency (%)	17.2
Panel Efficiency (%)	12.5
Temp. Co-eff. Current (%/C)	0.05
Temp. Co-eff. Voltage (%/C)	-0.33
Temp. Co-eff. Power (%/C)	-0.42
Operating Temperature	-40° +85° C
Bypass Diodes	2
Dimensions	919mm (L) x 505mm (W) x 35mm (D)
Weight	6.5kg
Quality	Manufactured in our ISO 9001-2015 and ISO 14001 certified factory. Complies with TUV sUD accreditation, IEC 61215 and IEC 61730 MCS accredited BABT 8501

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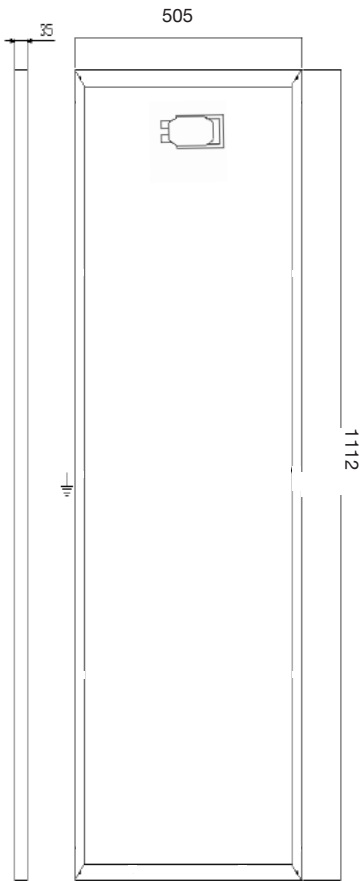
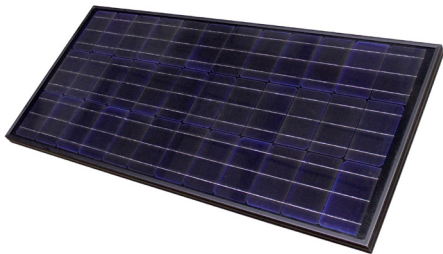
### CBSPGF/100 - 100w Solar Panel

SPECIFICATION	100W
Maximum Power (Pmax) (W)	100
Voltage at Max Power (Vmp)	19.3
Current at Max Power (Imp)	5.21
Voltage at open circuit (Voc)	23
Current at short circuit (Isc)	5.75
Cell Efficiency (%)	19
Panel Efficiency (%)	15.5
Temp. Co-eff. Current (%/C)	0.05
Temp. Co-eff. Voltage (%/C)	-0.33
Temp. Co-eff. Power (%/C)	-0.42
Operating Temperature	-40° +85° C
Bypass Diodes	2
Dimensions	1112mm (L) x 505mm (W) x 35mm (D)
Weight	7.5kg
Quality	Manufactured in our ISO 9001-2015 and ISO 14001 certified factory. Complies with TUV sUD accreditation, IEC 61215 and IEC 61730 MCS accredited BABT 8501

#### Typical Applications:

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CBSPGF/100



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CBSPGF/130



### CBSPGF/130 - 130w Solar Panel

SPECIFICATION	130W
Maximum Power (Pmax) (W)	130
Voltage at Max Power (Vmp)	16.5
Current at Max Power (Imp)	7.87
Voltage at open circuit (Voc)	20
Current at short circuit (Isc)	8.49
Cell Efficiency (%)	19.6
Panel Efficiency (%)	15
Temp. Co-eff. Current (%/C)	0.05
Temp. Co-eff. Voltage (%/C)	-0.33
Temp. Co-eff. Power (%/C)	-0.42
Operating Temperature	-40° +85°C
Bypass Diodes	2
Dimensions	1327mm (L) x 655mm (W) x 35mm (D)
Weight	9kg
Quality	Manufactured in our ISO 9001-2015 and ISO 14001 certified factory. Complies with TUV sUD accreditation, IEC 61215 and IEC 61730 MCS accredited BABT 8501

#### Typical Applications:

- Signage & lighting
- Leisure/ expedition vehicles
- Outdoor recreation
- Remote/ unmanned equipment
- Marine

