



YOUR ENERGY

InstaGen 245w Solar Panels

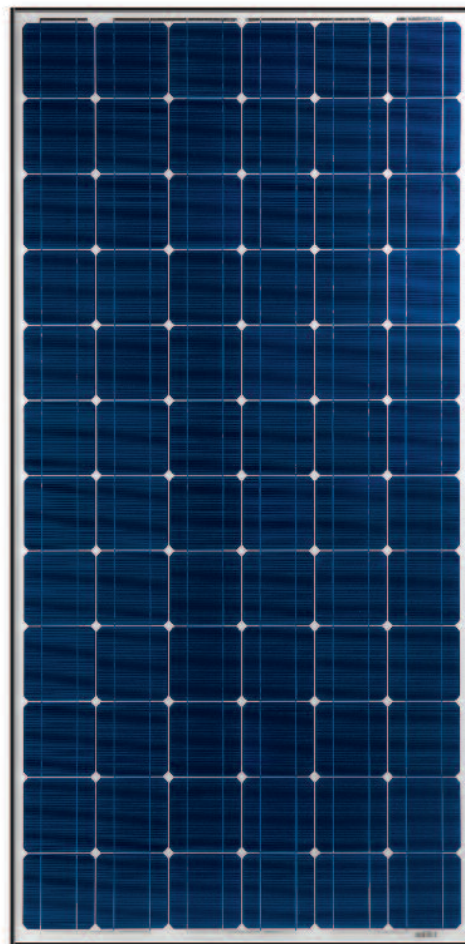
Monocrystalline Photovoltaic Modules

InstaGen

- High quality monocrystalline photovoltaic modules, which deliver exceptional performance and yield
- Perfect for large, medium or small sized residential, commercial and agricultural systems
- Easy Installation with all universal mounting systems

Product Features

- High performance in low light conditions, allowing the module to operate in mornings, evenings and cloudy days
- Positive power tolerance of 0/+5 ensures that the 245w output is always delivered or exceeded
- High performance module efficiency of 14.9% and cell efficiency of 17.1%
- Pilkington high transparency low tempered glass, with impact resistance
- MC4 connector
- Anodized aluminium alloy frame, which is strengthened to avoid freezing or warping
- InstaGen black or silver frames for a sleek appearance



Warranty and Guarantees

- 12 years product warranty
- 25 years guarantee on minimum power output
- 12 years performance guarantee on 90% power output
- 25 years performance guarantee on 80% power output

Quality and Environment

- MCS certification
- CE
- IEC 61215, IEC 61730
- ISO9001 Standards for quality management systems
- ISO14001 Standards for environmental management systems



Technical Information

InstaGen 245w Solar Panels

Monocrystalline Photovoltaic Modules

Electrical Characteristics

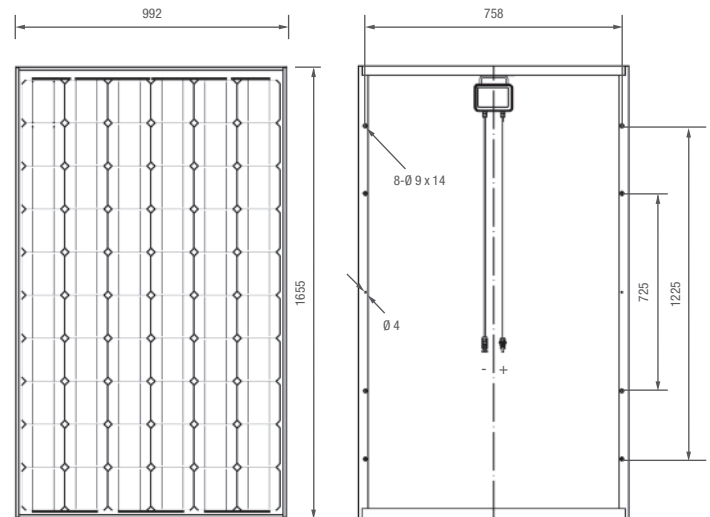
All specified parameters are at STC 25°C ambient, 1000W/m² irradiance and AM 1.5

Type		IG245BL-UK IG245SV-UK
Max-Power P _m	(W)	245
Module Power Range	(W)	250 > P _m ≥ 245
Power Tolerance	(W)	+0 ~ +5
Max-Power Voltage	V _m (V)	31.4
Max-Power Current	I _m (A)	7.81
Short-Circuit Current	I _{sc} (A)	8.75
Open-Circuit Voltage	V _{oc} (V)	37.3
Max-System Voltage	(VDC)	1000V
Cell Efficiency	(%)	17.1
Module Efficiency	(%)	14.9
Maximum Series Fuse	(A)	15
P _{max} Temperature Coefficients	(W/°C)	-0.9964
I _{sc} Temperature Coefficients	(A/°C)	0.0023
V _{oc} Temperature Coefficients	(V/°C)	-0.1801
Operating Temperature	(°C)	-40 ~ +85
NOCT Nominal Operating Cell Temperature		47 ± 2°C

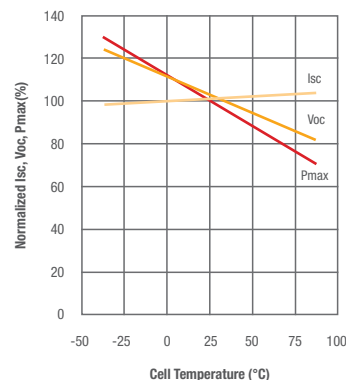
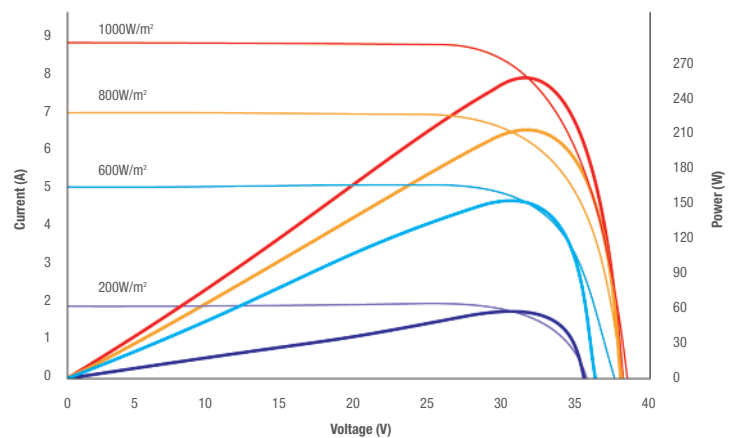
Mechanical Characteristics

Cable Type, Diameter and Length		4mm ² , 1000mm
Type of Connector		MC4
Number, Type and Arrangement of Cells		60pcs, Monocrystalline Silicon (6 x 10)
Cell Size (mm)		156 x 156 (D200)
Bypass Diodes		3 pcs
Dimensions of Panel (mm)		1655 x 992 x 40
Weight per Panel (kg)		22.5
No. of Drain Holes in Frame		10
Front Glass		Pilkington High Transmission, Low Iron, Tempered Glass 3.2mm
Frame		Anodised Aluminium Frame
Colour of Frame		IG245BL-UK – Black Frame IG245SV-UK – Silver Frame
Wind – Maximum Load Rating		2400Pa
Snow – Maximum Load Rating		5400Pa
Packing Configuration		24 pcs per Box

Mechanical Specifications



I-V Curve



I-V Curves at different Irradiances (AM1.5 25°C)

Specifications included in this datasheet are subject to change without prior notice.