



SETSOLAR

HIGH EFFICIENCY PHOTOVOLTAIC SOLAR MODULE

SETSOLAR manufactures its own photovoltaic modules using guaranteed and certified materials.

This module meets industry standards for consumer safety and reliability and is covered by a comprehensive 20 year warranty.

Low-iron tempered glass is designed to resist impact and increase light transmittance, thus improving daily power generation.

Encapsulating the solar cells between Tempered Glass / EVA / Tedlar guarantees a durable protection for the cells during extreme weather conditions.

The strong aluminium frame with pre-drilled mounting holes allow for easy installation.

Each solar module is equipped with a special IP55 junction box and protective bypass diodes.

Furthermore is each solar module submitted to an individual quality inspection, certifying product quality and output power performance.

APPLICATIONS

- Signalling ●
- Surveillance ●
- Meteorological ●
- Rural Electrification ●
- Mobile Communication ●

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SETSOLAR M101

TYPICAL PERFORMANCE CHARACTERISTICS

Typical power (Wp)	8	10	12
Tolerance (%)	± 5%		
Voltage at max.power (V)	17.5	17.6	17.8
Current at max.power (A)	0.4	0.6	0.7
Open circuit voltage (Voc)	20.8	22.1	22.3
Short circuit current (Isc)	0.6	0.7	0.8

Standard test conditions: 1000W/m², AM1.5G and 25 degree C

TEMPERATURE COEFFICIENTS

Voltage	-80.28mV / degree C
Current	+0.36mA / degree C
Power	-0.46% / degree C
NOCT (degrees)	45

CELLS

Type	Texturized multicrystalline
Dimensions	156 x 15mm
Layout	36 cells (2rows x 18cells)

GENERAL INFORMATION

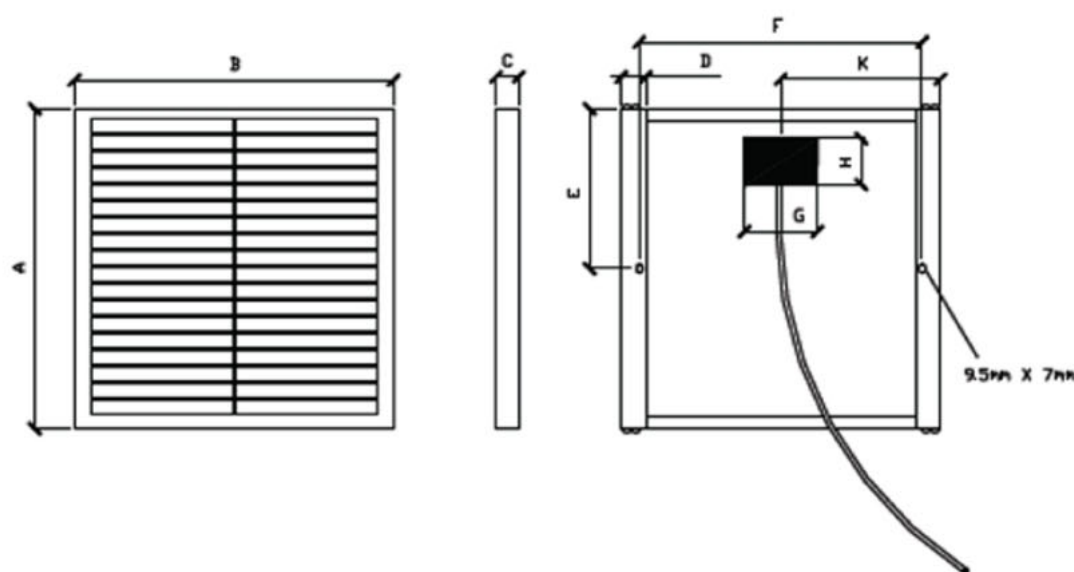
Maximum System voltage	715V
Diodes	N/A
Type of connection	Small Junction box with 1m cable
Frame	25mm black powder-coated aluminium
Weight (kg)	1.6
Packaging	4 modules per carton box

CERTIFICATION

IEC61215	N/A
Safety Class II	N/A

WARRANTY

Product	2 years
Power output	Terrestrial: 20 years / 80% yield Marine: 10 years / 90% yield



DIMENSIONS

A	354
B	357
C	25
D	27
E	178.5
F	313
G	80
H	50
I	177
J	50

Dimensions in mm
(tolerance ±2mm)

SETSOLAR M501

TYPICAL PERFORMANCE CHARACTERISTICS

Typical power (Wp)	50	55
Tolerance (%)	± 5%	
Voltage at max.power (V)	17.6	17.8
Current at max.power (A)	2.8	3.1
Open circuit voltage (Voc)	21.7	22.0
Short circuit current (Isc)	3.1	3.4

Standard test conditions: 1000W/m², AM1.5G and 25 degree C

TEMPERATURE COEFFICIENTS

Voltage	-80.28mV / degree C
Current	+1.48mA / degree C
Power	-0.46% / degree C
NOCT (degrees)	45

CELLS

Type	Texturized multicrystalline
Dimensions	156 x 63mm
Layout	36 cells (3rows x 12cells)

GENERAL INFORMATION

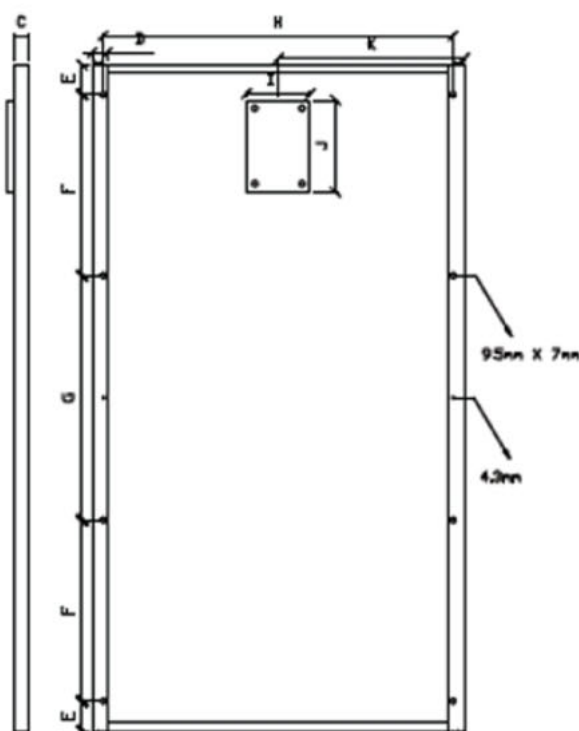
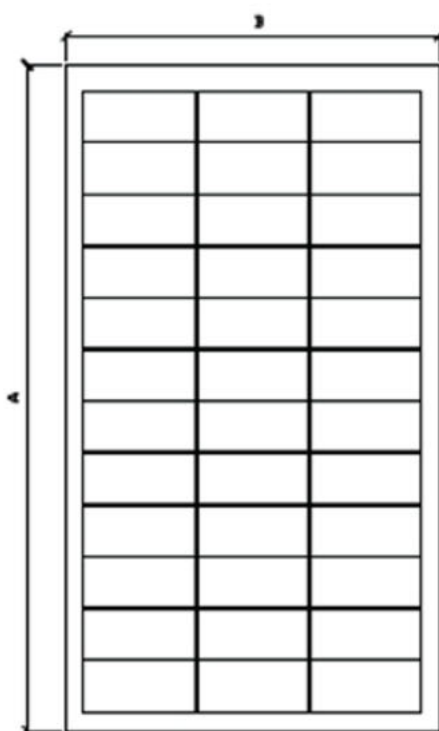
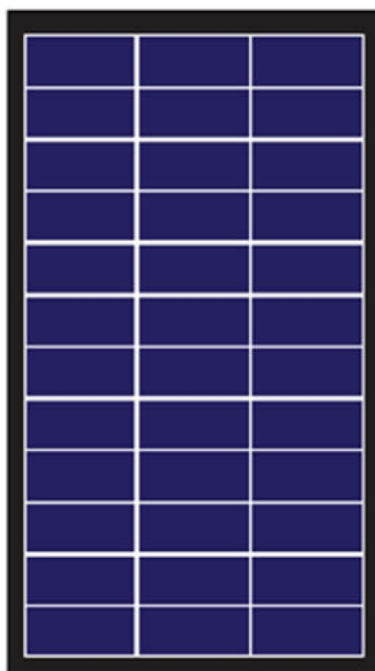
Maximum System voltage	715V
Diodes	2 x 10A bypass
Type of connection	Junction box
Frame	25mm black powder-coated aluminium
Weight (kg)	5.3
Packaging	4 modules per carton box

CERTIFICATION

IEC61215	In progress
Safety Class II	In progress

WARRANTY

Product	2 years
Power output	Terrestrial: 20 years / 80% yield Marine: 10 years / 90% yield



DIMENSIONS

A	860
B	510
C	25
D	27
E	22
F	215
G	375
H	470
I	115
J	185
K	225

Dimensions in mm
(tolerance +2mm)

SETSOLAR M503

TYPICAL PERFORMANCE CHARACTERISTICS

Typical power (Wp)	50	55	60
Tolerance (%)	± 5%		
Voltage at max.power (V)	17.6	17.8	18.0
Current at max.power (A)	2.8	3.1	3.3
Open circuit voltage (Voc)	21.7	22.0	22.2
Short circuit current (Isc)	3.1	3.4	3.7

Standard test conditions: 1000W/m², AM1.5G and 25 degree C

TEMPERATURE COEFFICIENTS

Voltage	-80.28mV / degree C
Current	+1.59mA / degree C
Power	-0.46% / degree C
NOCT (degrees)	45

CELLS

Type	Texturized multicrystalline
Dimensions	156 x 67mm
Layout	36 cells (4rows x 9cells)

GENERAL INFORMATION

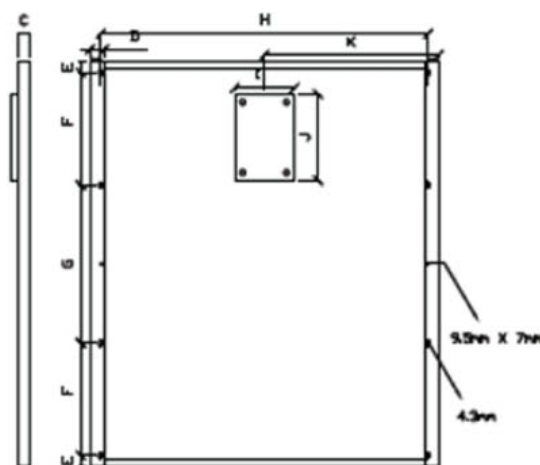
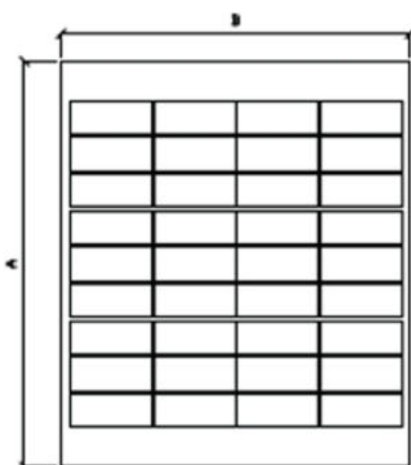
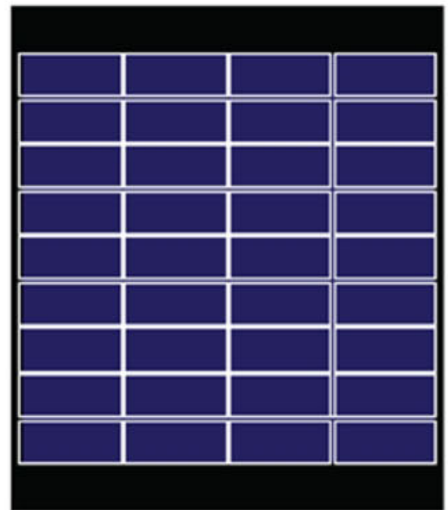
Maximum System voltage	715V
Diodes	2 x 10A bypass
Type of connection	Junction box
Frame	25mm black powder-coated aluminium
Weight (kg)	6.2
Packaging	4 modules per carton box

CERTIFICATION

IEC61215	In progress
Safety Class II	In progress

WARRANTY

Product	2 years
Power output	Terrestrial: 20 years / 80% yield Marine: 10 years / 90% yield



DIMENSIONS

A	785
B	670
C	25
D	27
E	22
F	215
G	311
H	630
I	115
J	165
K	325

Dimensions in mm
(tolerance +2mm)

SETSOLAR M751

TYPICAL PERFORMANCE CHARACTERISTICS

Typical power (Wp)	75	80	85
Tolerance (%)	± 5%		
Voltage at max.power (V)	17.6	17.8	18.1
Current at max.power (A)	4.3	4.5	4.7
Open circuit voltage (Voc)	22.0	22.1	22.4
Short circuit current (Isc)	4.7	4.9	5.1

Standard test conditions: 1000W/m², AM1.5G and 25 degree C

TEMPERATURE COEFFICIENTS

Voltage	-80.28mV / degree C
Current	+2.22mA / degree C
Power	-0.46% / degree C
NOCT (degrees)	45

CELLS

Type	Texturized multicrystalline
Dimensions	156 x 94mm
Layout	36 cells (3rows x 12cells)

GENERAL INFORMATION

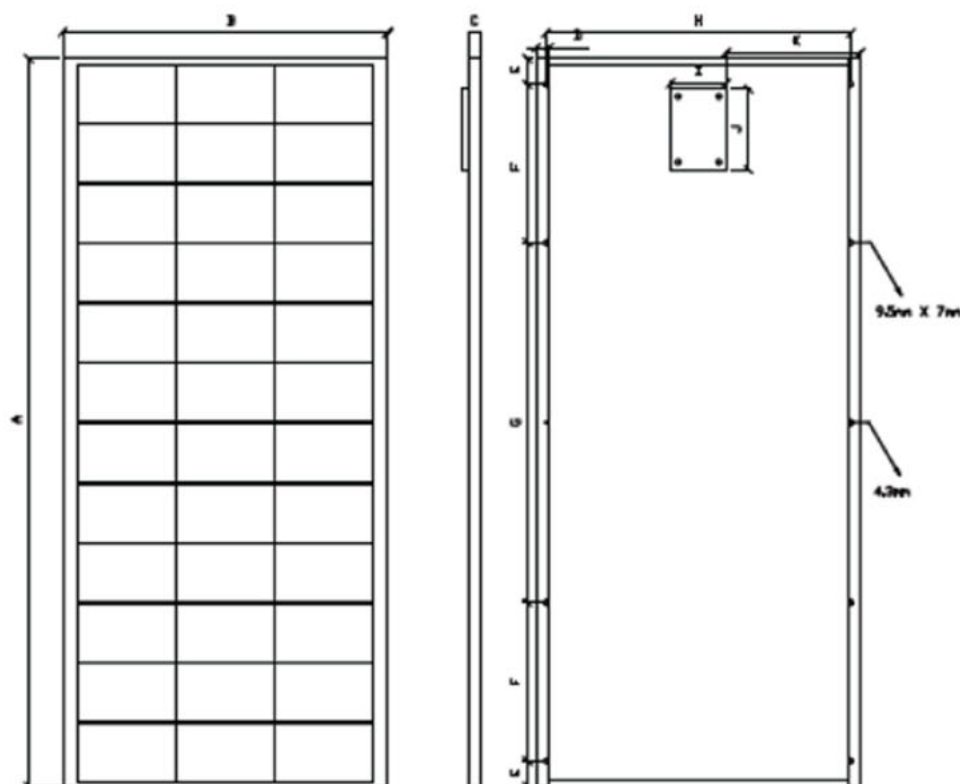
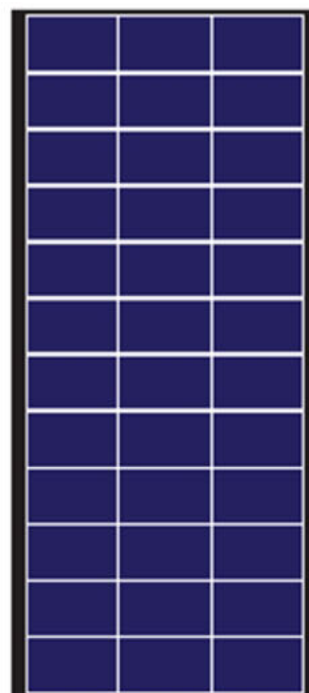
Maximum System voltage	715V
Diodes	2 x 10A bypass
Type of connection	Junction box
Frame	25mm black powder-coated aluminium
Weight (kg)	7.9
Packaging	4 modules per carton box

CERTIFICATION

IEC61215	In progress
Safety Class II	In progress

WARRANTY

Product	2 years
Power output	Terrestrial: 20 years / 80% yield Marine: 10 years / 90% yield



DIMENSIONS

A	1230
B	550
C	25
D	27
E	22
F	215
G	750
H	512
I	115
J	165
K	220

Dimensions in mm
(tolerance +2mm)

SETSOLAR M754

TYPICAL PERFORMANCE CHARACTERISTICS

Typical power (Wp)	70	75	80
Tolerance (%)	± 5%		
Voltage at max.power (V)	17.2	17.6	17.8
Current at max.power (A)	4.1	4.3	4.5
Open circuit voltage (Voc)	21.8	22.0	22.1
Short circuit current (Isc)	4.5	4.7	4.9

Standard test conditions: 1000W/m², AM1.5G and 25 degree C

TEMPERATURE COEFFICIENTS

Voltage	-80.28mV / degree C
Current	+2.11mA / degree C
Power	-0.46% / degree C
NOCT (degrees)	45

CELLS

Type	Texturized multicrystalline
Dimensions	156 x 89mm
Layout	36 cells (3rows x 12 cells)

GENERAL INFORMATION

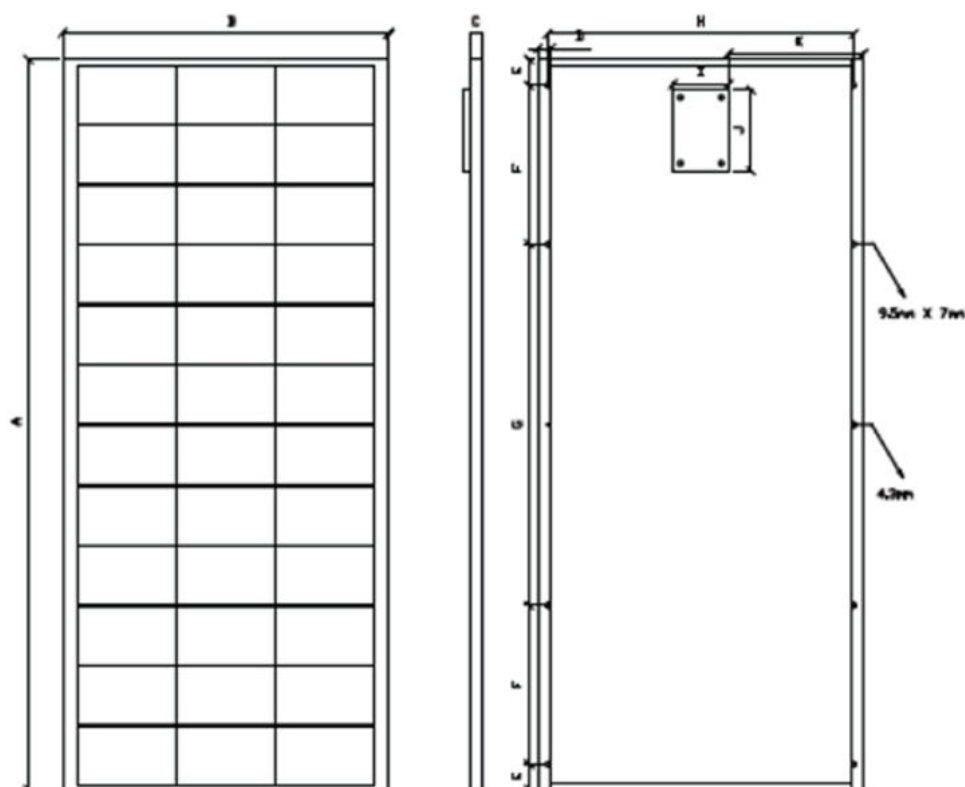
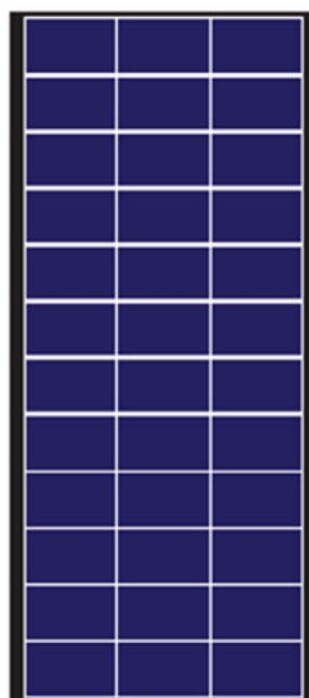
Maximum System voltage	715V
Diodes	2 x 10A bypass
Type of connection	Junction box
Frame	25mm black powder-coated aluminium
Weight (kg)	7.9
Packaging	4 modules per carton box

CERTIFICATION

IEC61215	In progress
Safety Class II	In progress

WARRANTY

Product	2 years
Power output	Terrestrial: 20 years / 80% yield Marine: 10 years / 90% yield



DIMENSIONS

A	1230
B	550
C	25
D	27
E	22
F	215
G	750
H	512
I	115
J	165
K	220

Dimensions in mm
(tolerance ±2mm)

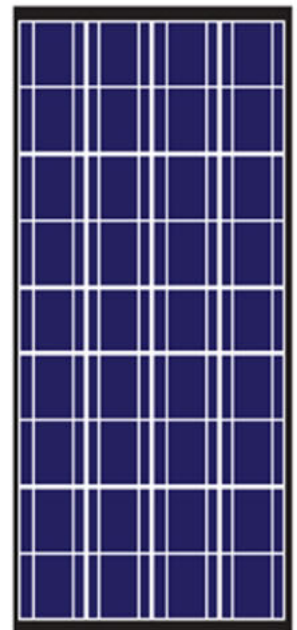
SETSOLAR M1300

TYPICAL PERFORMANCE CHARACTERISTICS									
Typical power (Wp)	100	105	110	115	120	125	130	135	140
Tolerance (%)	+ 5%								
Voltage at max.power (V)	16.7	16.8	17.0	17.4	17.5	17.6	17.8	18.1	18.2
Current at max.power (A)	6.0	6.3	6.5	6.7	6.9	7.1	7.3	7.5	7.7
Open circuit voltage (Voc)	20.7	20.8	21.0	21.4	21.5	21.6	21.8	22.1	22.4
Short circuit current (Isc)	6.5	6.8	7.0	7.2	7.4	7.6	7.8	8.0	8.1

Standard test conditions: 1000W/m², AM1.5G and 25 degree C

TEMPERATURE COEFFICIENTS	
Voltage	-80.28mV / degree C
Current	+3.69mA / degree C
Power	-0.46% / degree C
NOCT (degrees)	45

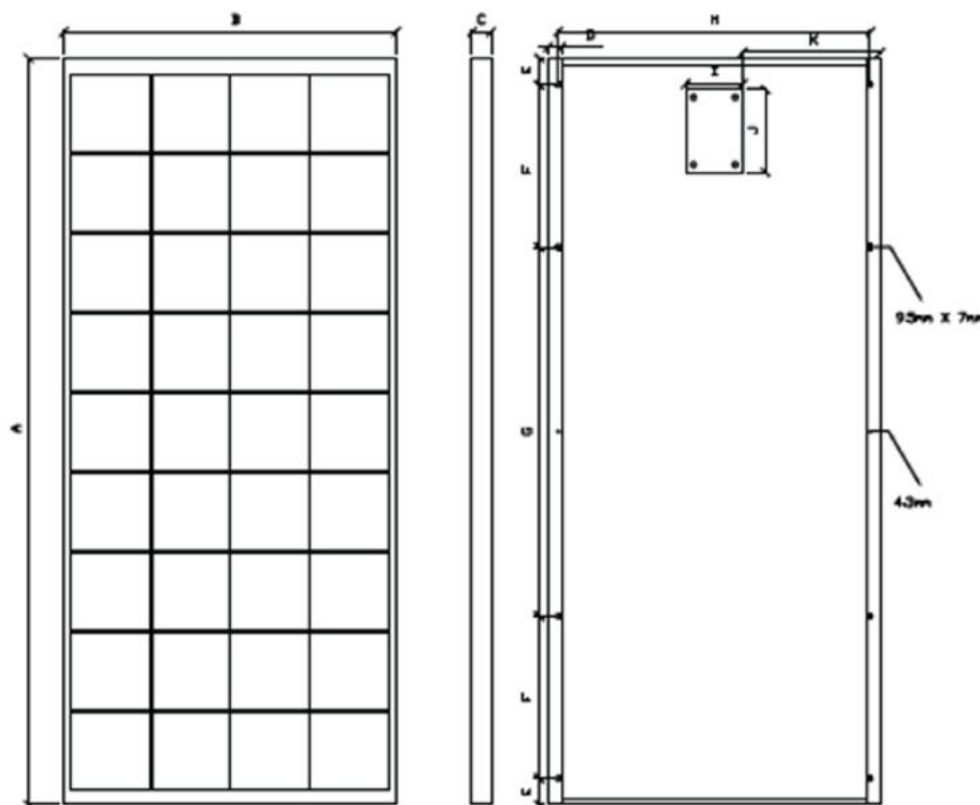
CELLS	
Type	Texturized multicrystalline
Dimensions	156 x 156mm
Layout	36 cells (4rows x 9cells)



GENERAL INFORMATION	
Maximum System voltage	715V
Diodes	2 x 10A bypass
Type of connection	Junction box
Frame	38mm black powder-coated aluminium
Weight (kg)	12.5
Packaging	2 modules per carton box

CERTIFICATION	
IEC61215	In progress
Safety Class II	In progress

WARRANTY	
Product	2 years
Power output	Terrestrial: 20 years / 80% yield Marine: 10 years / 90% yield



DIMENSIONS

A	1505
B	670
C	38
D	27
E	51
F	325
G	753
H	630
I	115
J	165
K	280

Dimensions in mm
(tolerance +2mm)

SETSOLAR M1600

TYPICAL PERFORMANCE CHARACTERISTICS

Typical power (Wp)	150	155	160
Tolerance (%)	+/- 5%		
Voltage at max.power (V)	20.5	20.9	21.3
Current at max.power (A)	7.3	7.4	7.5
Open circuit voltage (Voc)	26.5	26.9	27.3
Short circuit current (Isc)	7.9	8.0	8.1

Standard test conditions: 1000W/m², AM1.5G and 25 degree C

TEMPERATURE COEFFICIENTS

Voltage	-93.6mV / degree C
Current	+3.69mA / degree C
Power	-0.46% / degree C
NOCT (degrees)	45

CELLS

Type	Texturized multicrystalline
Size	6"
Dimensions	156 x 156mm
Layout	42 cells (6rows x 7cells)

GENERAL INFORMATION

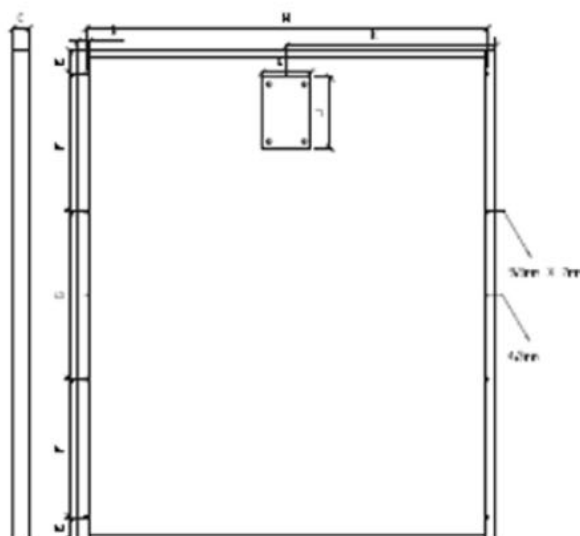
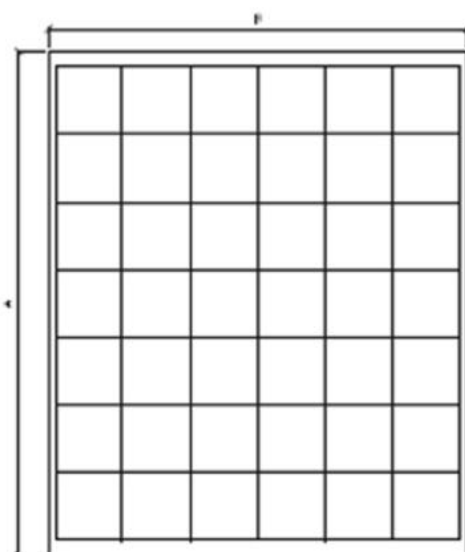
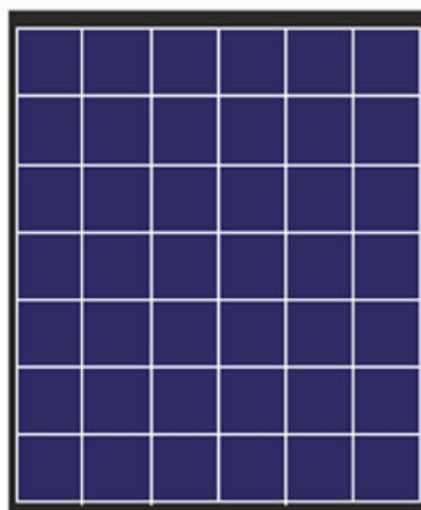
Maximum System voltage	715V
Diodes	3 x 10A bypass
Type of connection	Junction box
Frame	38mm black powder-coated aluminium
Weight (kg)	14
Packaging	2 modules per carton box

CERTIFICATION

IEC61215	In progress
Safety Class II	In progress

WARRANTY

Product	2 years
Power output	Terrestrial: 20 years / 80% yield Marine: 10 years / 90% yield



DIMENSIONS

A	1190
B	1000
C	38
D	27
E	51
F	325
G	438
H	958
I	115
J	165
K	500

Dimensions in mm
(tolerance +/-2mm)

SETSOLAR M2000

TYPICAL PERFORMANCE CHARACTERISTICS

Typical power (Wp)	190	195	200	205
Tolerance (%)	+/- 5%			
Voltage at max.power (V)	26.8	26.9	27.1	27.5
Current at max.power (A)	7.1	7.3	7.4	7.5
Open circuit voltage (Voc)	33.1	33.2	33.4	33.8
Short circuit current (Isc)	7.7	7.8	7.9	8.0

Standard test conditions: 1000W/m², AM1.5G and 25 degree C

TEMPERATURE COEFFICIENTS

Voltage	-120.4mV / degree C
Current	+3.69mA / degree C
Power	-0.46% / degree C
NOCT (degrees)	45

CELLS

Type	Texturized multicrystalline
Size	6"
Dimensions	156 x 156mm
Layout	54 cells (6rows x 9cells)

GENERAL INFORMATION

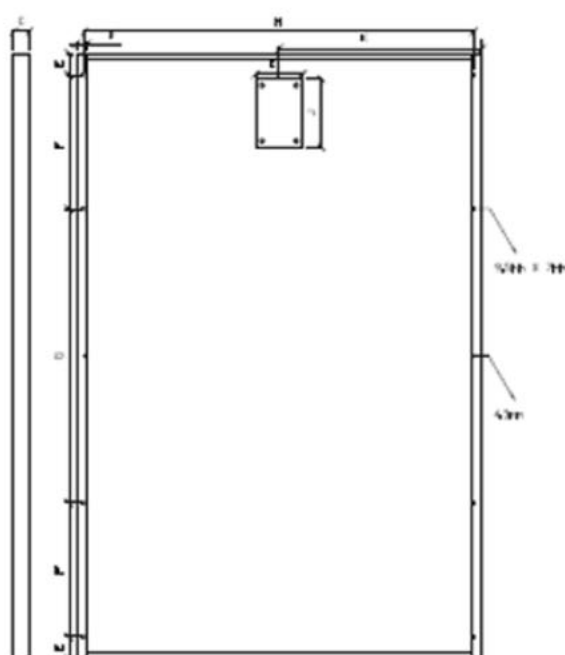
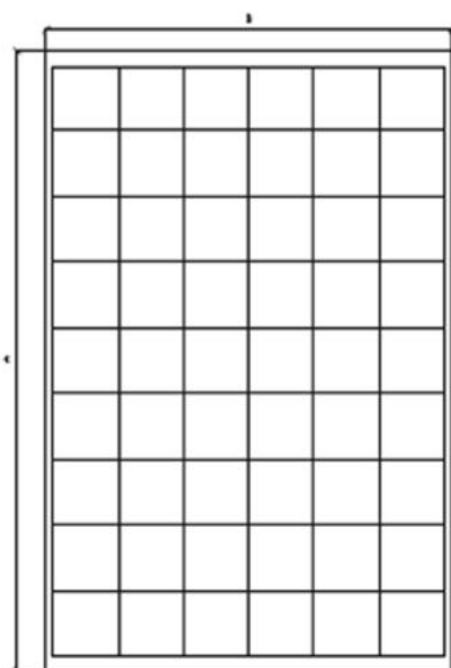
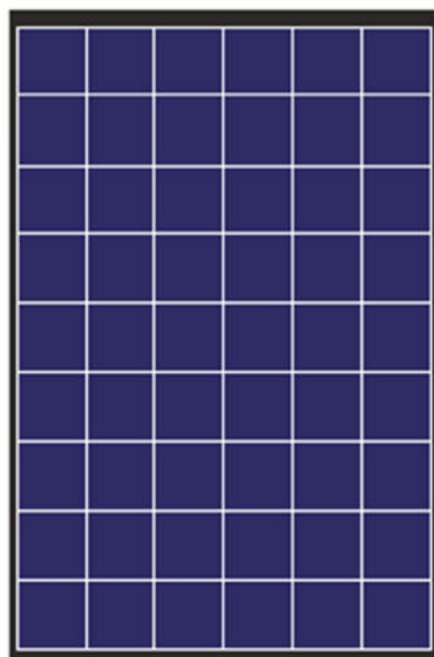
Maximum System voltage	715V
Diodes	3 x 10A bypass
Type of connection	Junction box
Frame	38mm black powder-coated aluminium
Weight (kg)	18
Packaging	2 modules per carton box

CERTIFICATION

IEC61215	In progress
Safety Class II	In progress

WARRANTY

Product	2 years
Power output	Terrestrial: 20 years / 80% yield Marine: 10 years / 90% yield



DIMENSIONS

A	1505
B	1000
C	38
D	27
E	51
F	325
G	753
H	958
I	115
J	165
K	500

Dimensions in mm
(tolerance +2mm)