

Spectralite SemiFlex & SemiFlex Pro



Our latest range of Spectralite SemiFlex solar panels are more compact and efficient than before thanks to their high quality design, ETFE polymer coating and class A solar cell construction. This new range is split into two product lines, the **Spectralite SemiFlex** that uses Mono crystalline cells and the **Spectralite SemiFlex PRO** which uses SunPower cells. Thanks to their robust design the panels are tough enough to be walked on and enables them to be effective in low power commercial applications where their non-glass construction makes them shatter-proof and vandal resistant.

Spectralite SemiFlex & Pro Features

- Aluminium back plate to prevent cracking of the cells and improves heat dissipation.
- Panels are semi-flexible so can be slightly flexed without cell damage unlike conventional panels.
- Corners are rounded with 4 cut out eyelets for safe and easy installation.
- Lightweight, ultra flat, extremely robust, scratch-proof, and sea/salt water resistant.
- Built in blocking diode and 3M twin core cable included.

Spectralite SemiFlex Features:

- Anti-Slip and anti-soil ETFE polymer coating for scratch, heat and corrosion resistant
- Uses Class A mono crystalline solar panels.

Spectralite SemiFlex Pro Features:

- Uses SunPower Maxeon Cells, proven to increase panel efficiency.
- Market leading DuPont anti-slip and anti-soil ETFE polymer coating for scratch, heat and corrosion resistant.
- 2 bypass diodes.
- Unique composite encapsulated cell which prevents cracking and enhances flexibility.



Spectralite SemiFlex



Spectralite SemiFlex Pro

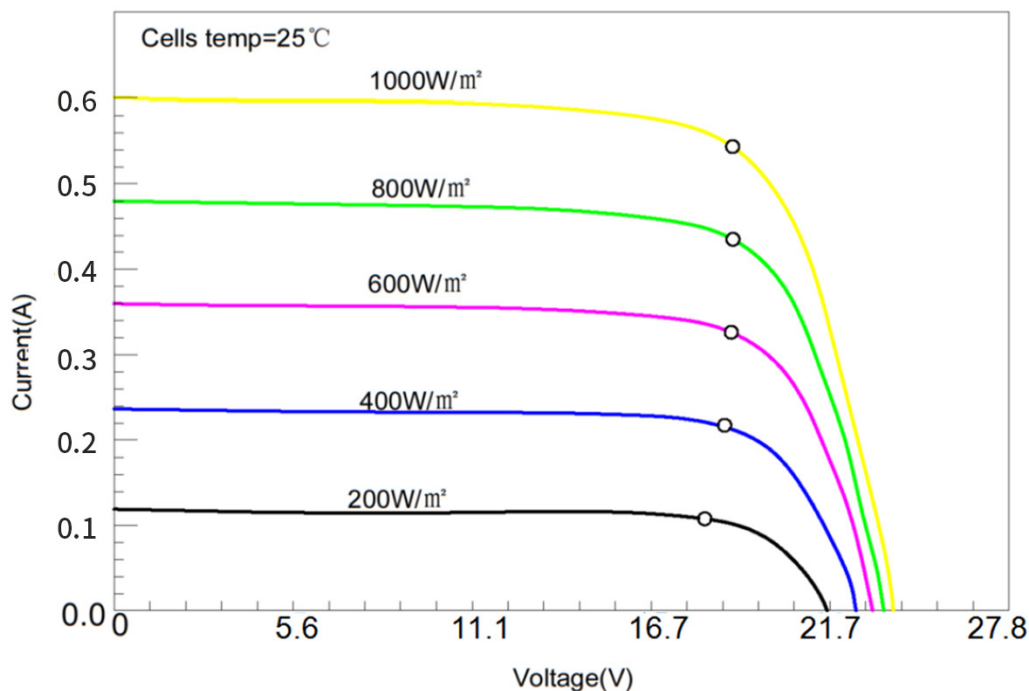
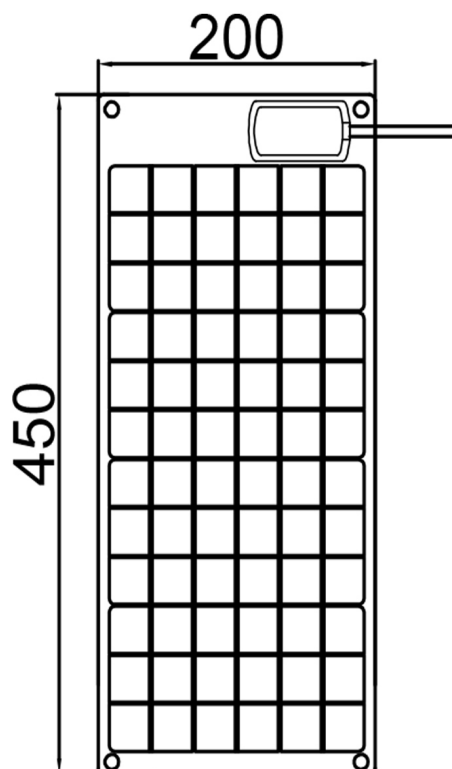
PV Module Type / Peak Power	Dimensions (mm)	Weight (kg)	Part Number
SpectraLite SemiFlex 10W	450 X 200 X 4	0.7	CA-10/450
SpectraLite SemiFlex 35W	600 X 365 X 4	1.35	CA-10/453A
SpectraLite SemiFlex PRO 50W	570 X 520 X 4	1.35	CA-10/455A
SpectraLite SemiFlex PRO 100W	1055 X 520 X 3.8	2.26	CA-10/456A
SpectraLite SemiFlex PRO 150W	1460 X 540 X 3.8	3.26	CA-10/457A
SpectraLite SemiFlex PRO 200W	1210 X 850 X 4.5	4.25	CA-10/458A

For pricing or any further information, please contact Omni Instruments Ltd.

Spectralite SemiFlex 10W



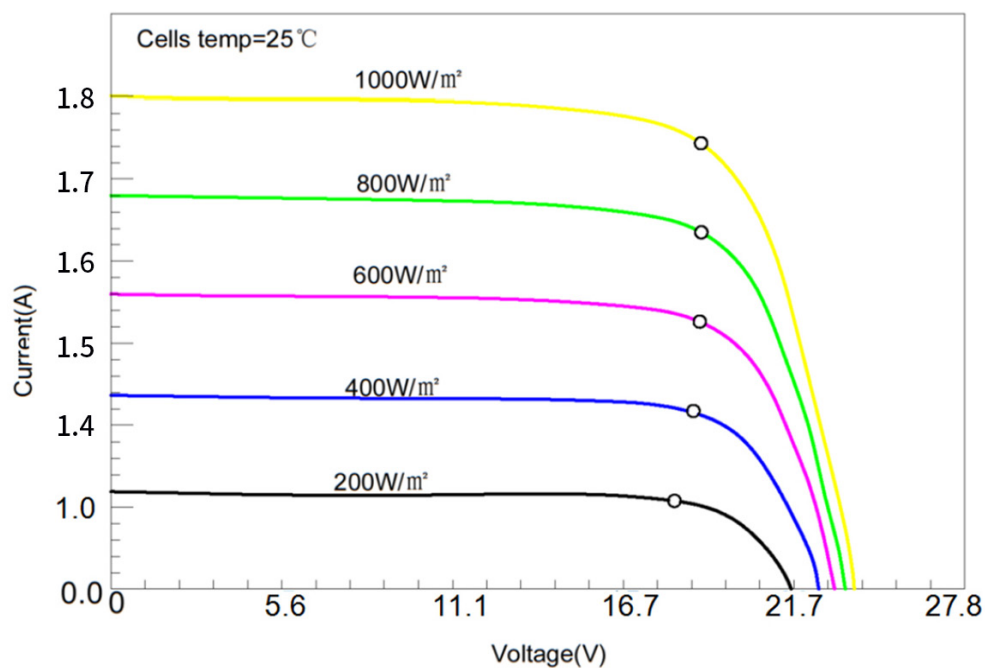
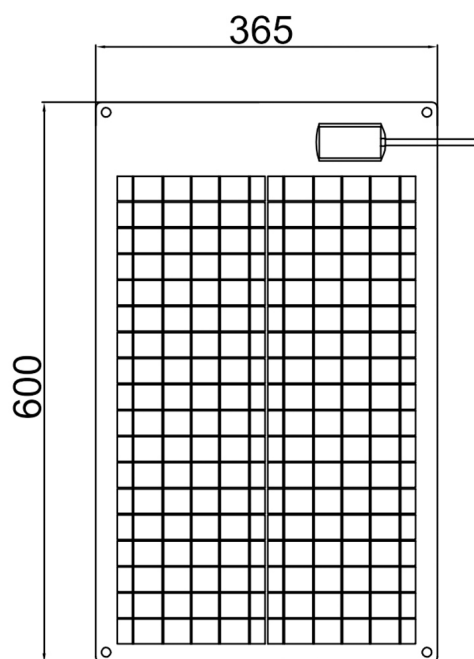
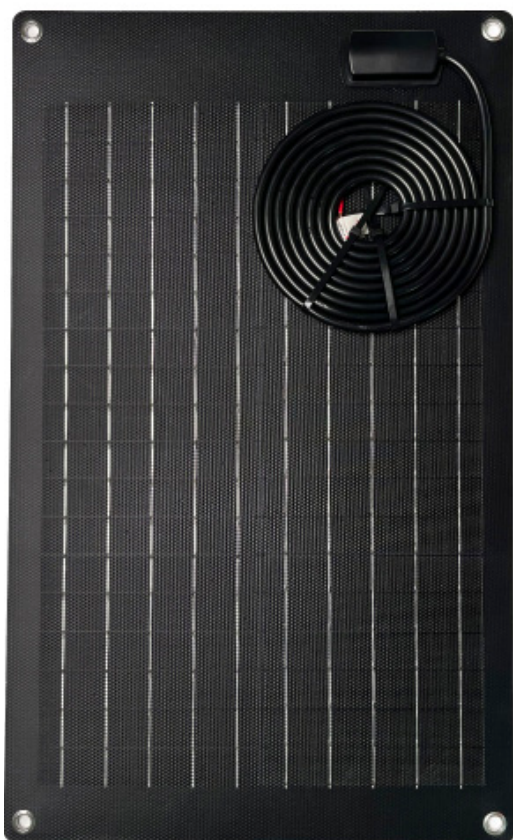
Model	CA-10/450
Cell	158 x 158mm / PERC Mono Solar Cell
Cable	3m
Size (mm)	450 x 200 x 4mm
Tolerance	0~ +3%
Nominal Peak Power (WP)	10W
V _{mp} (V)	18V
I _{pm} (A)	0.55A
V _{oc} (V)	21.6V
I _{sc} (A)	0.60A
Efficiency	22.50%
Power Temperature Coefficient	-0.24%/°C
Voltage Temperature Coefficient	-0.25%/°C
Current Temperature Coefficient	-0.06%/°C
NOCT	45±2°C
Max System Voltage	300V DC
Certification	UKCA, CE, ROHS,ISO9001:2015,
N.G	0.7 kg
G.W	1.00 kg



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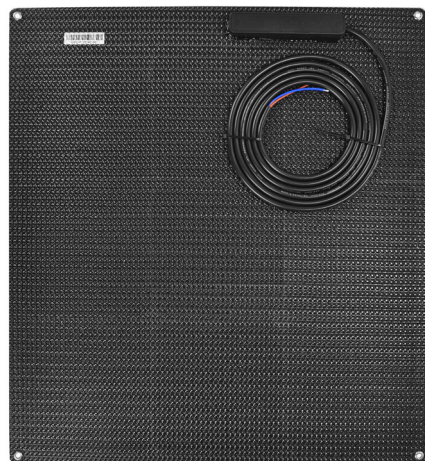
Spectralite SemiFlex 35W

Model	CA-10/453A
Cell	166 x 166mm / PERC Mono Solar Cell
Cable	3m
Size (mm)	600 x 365 x 4mm
Tolerance	0~ +3%
Nominal Peak Power (WP)	35W
Vmp (V)	20V
Ipm (A)	1.75A
Voc (V)	24V
Isc (A)	1.89A
Efficiency	22.50%
Power Temperature Coefficient	-0.24%/°C
Voltage Temperature Coefficient	-0.25%/°C
Current Temperature Coefficient	-0.06%/°C
NOCT	45±2°C
Max System Voltage	300V DC
Certification	UKCA, CE, ROHS, ISO9001:2015,
N.G	1.35 kg
G.W	1.90 kg

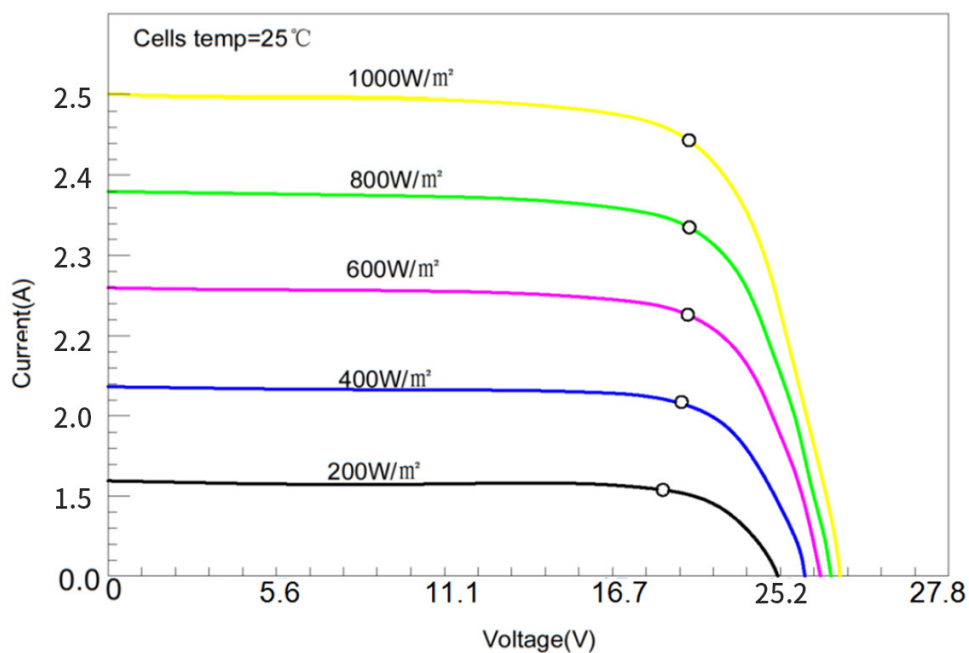
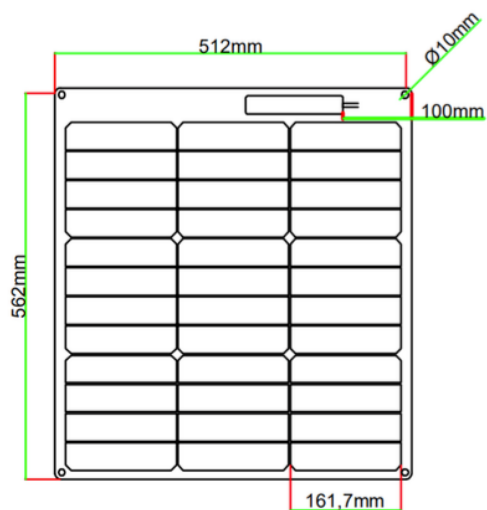


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Spectralite SemiFlex Pro 50W

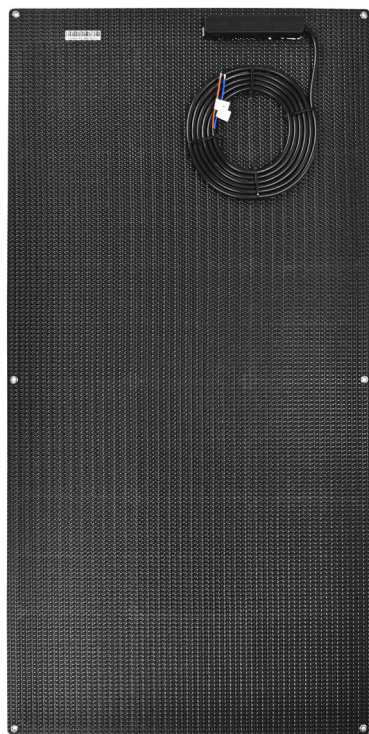


Model	CA-10/455A
Cell	161 x 161mm / SunPower Solar Cell
Cable	3m
Size (mm)	570 x 520 x 3.8mm
Tolerance	0~ +3%
Nominal Peak Power (WP)	50W
V _{mp} (V)	21V
I _{pm} (A)	2.38A
V _{oc} (V)	25.2V
I _{sc} (A)	2.57A
Efficiency	23.5%
Power Temperature Coefficient	-0.24%/°C
Voltage Temperature Coefficient	-0.25%/°C
Current Temperature Coefficient	-0.06%/°C
NOCT	45±2°C
Max System Voltage	300V DC
Certification	UKCA, CE, ROHS,ISO9001:2015,
N.G	1.22 kg
G.W	1.92 kg

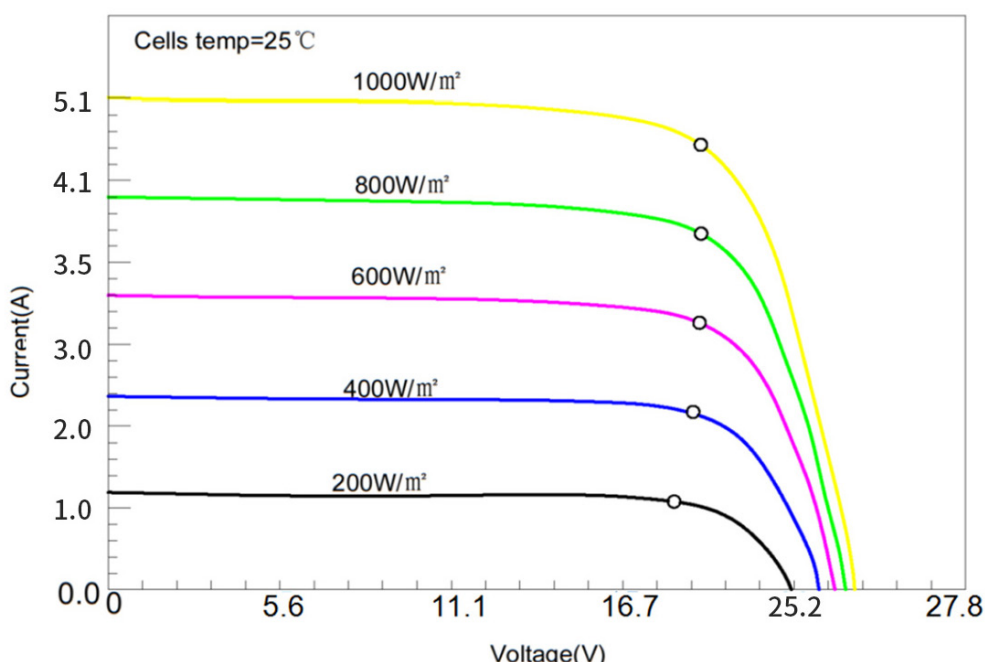
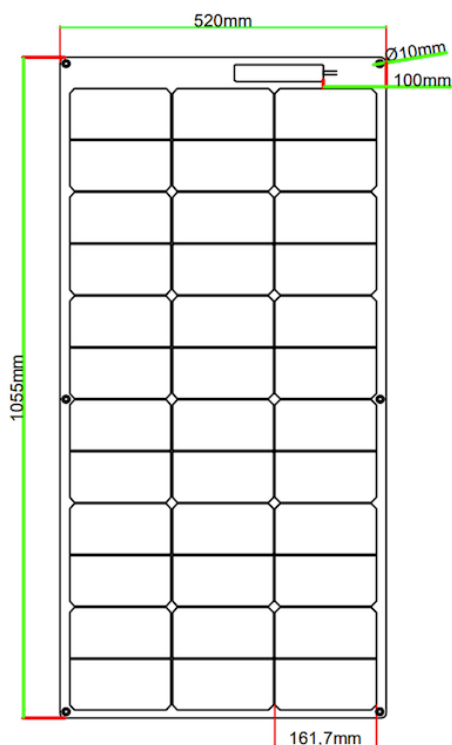


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Spectralite SemiFlex Pro 100W



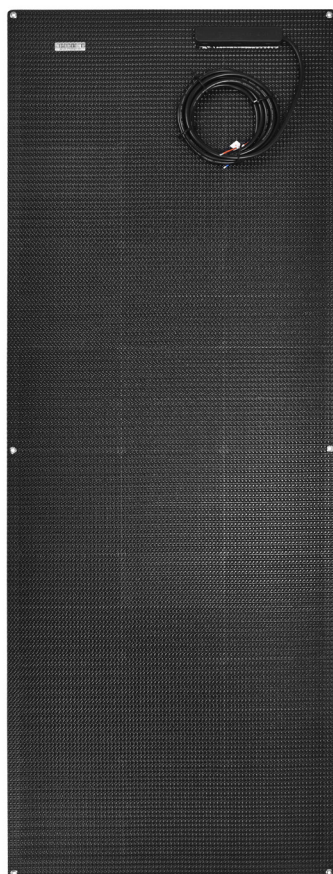
Model	CA-10/456A
Cell	161 x 161mm / SunPower Solar Cell
Cable	3m
Size (mm)	1055 x 520 x 3.8mm
Tolerance	0~ +3%
Nominal Peak Power (WP)	100W
Vmp (V)	21V
Ipm (A)	4.76A
Voc (V)	25.2V
Isc (A)	5.14A
Efficiency	23.50%
Power Temperature Coefficient	-0.24%/°C
Voltage Temperature Coefficient	-0.25%/°C
Current Temperature Coefficient	-0.06%/°C
NOCT	45±2°C
Max System Voltage	300V DC
Certification	UKCA, CE, ROHS, ISO9001:2015,
N.G	2.26kg
G.W	3.15 kg



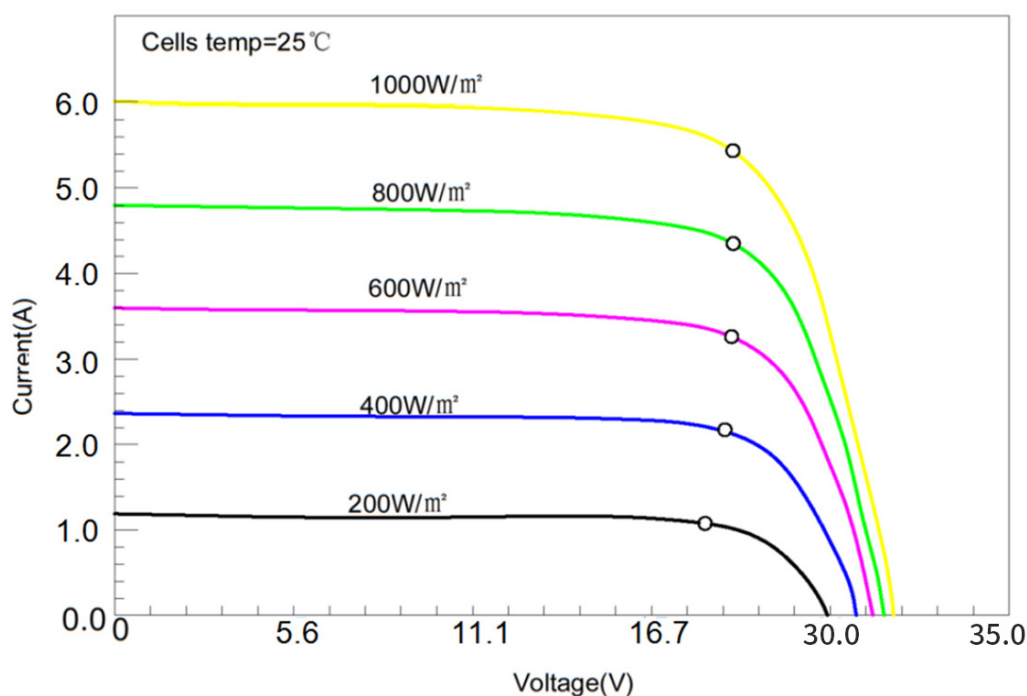
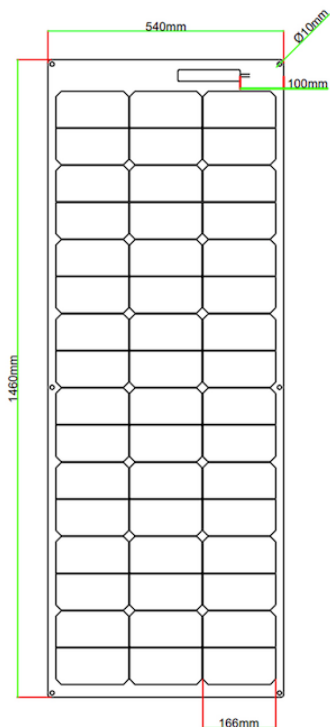
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Spectralite SemiFlex Pro 150W

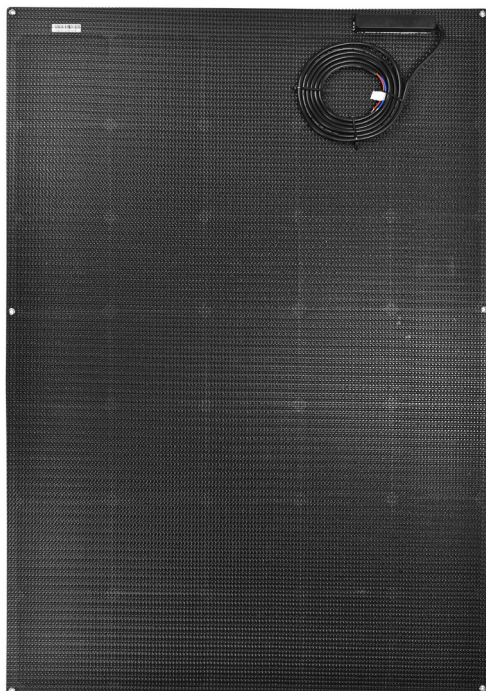


Model	CA-10/457A
Cell	166 x 166mm / SunPower Solar Cell
Cable	3m
Size (mm)	1460 x 540 x 3.8mm
Tolerance	0~ +3%
Nominal Peak Power (WP)	150W
V _{mp} (V)	26.5V
I _{pm} (A)	5.66A
V _{oc} (V)	31.8V
I _{sc} (A)	6.11A
Efficiency	23.50%
Power Temperature Coefficient	-0.24%/°C
Voltage Temperature Coefficient	-0.25%/°C
Current Temperature Coefficient	-0.06%/°C
NOCT	45±2°C
Max System Voltage	300V DC
Certification	UKCA, CE, ROHS, ISO9001:2015,
N.G	3.26 kg
G.W	4.76 kg

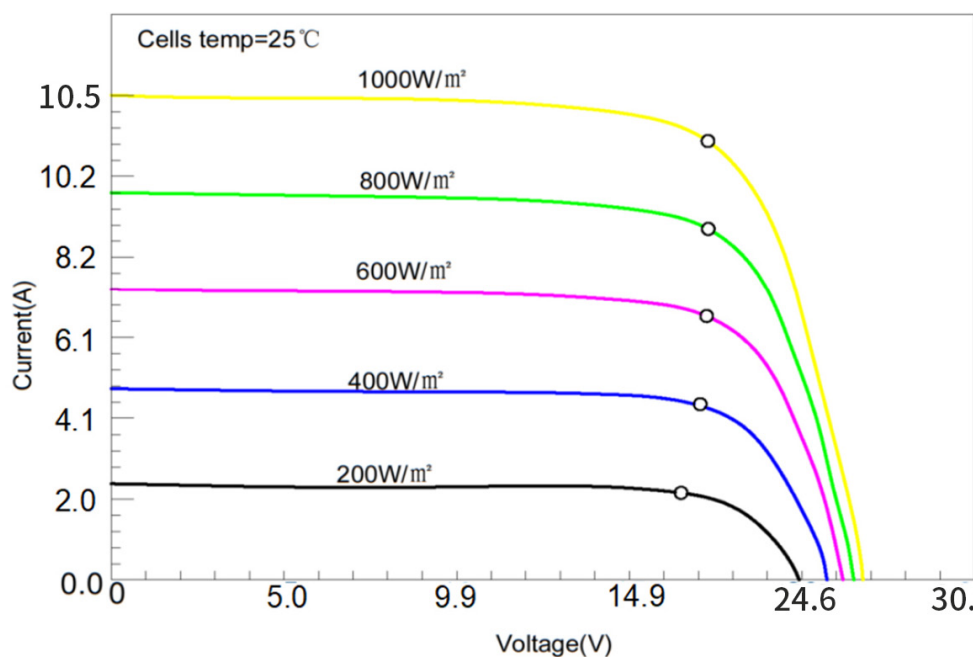
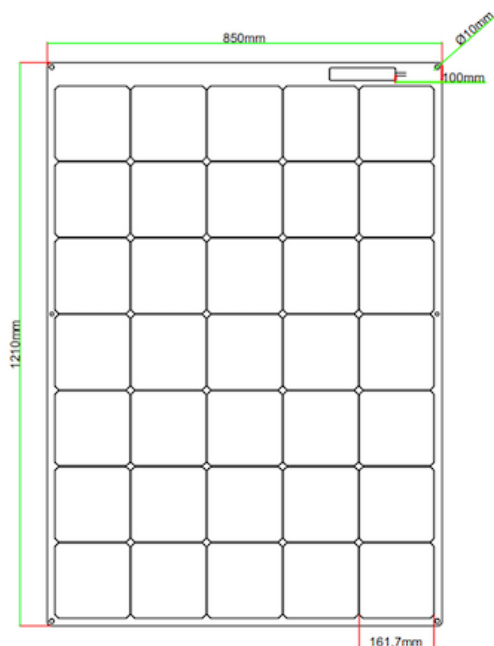


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Spectralite SemiFlex Pro 200W



Model	CA-10/458A
Cell	161 x 161mm / SunPower Solar Cell
Cable	3m
Size (mm)	1210 x 850 x 3.8mm
Tolerance	0~ +3%
Nominal Peak Power (WP)	200W
V _{mp} (V)	20.5V
I _{pm} (A)	9.75A
V _{oc} (V)	24.6V
I _{sc} (A)	10.53A
Efficiency	23.50%
Power Temperature Coefficient	-0.24%/°C
Voltage Temperature Coefficient	-0.25%/°C
Current Temperature Coefficient	-0.06%/°C
NOCT	45±2°C
Max System Voltage	300V DC
Certification	UKCA, CE, ROHS, ISO9001:2015,
N.G	4.25 kg
G.W	6.40 kg



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