

# 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



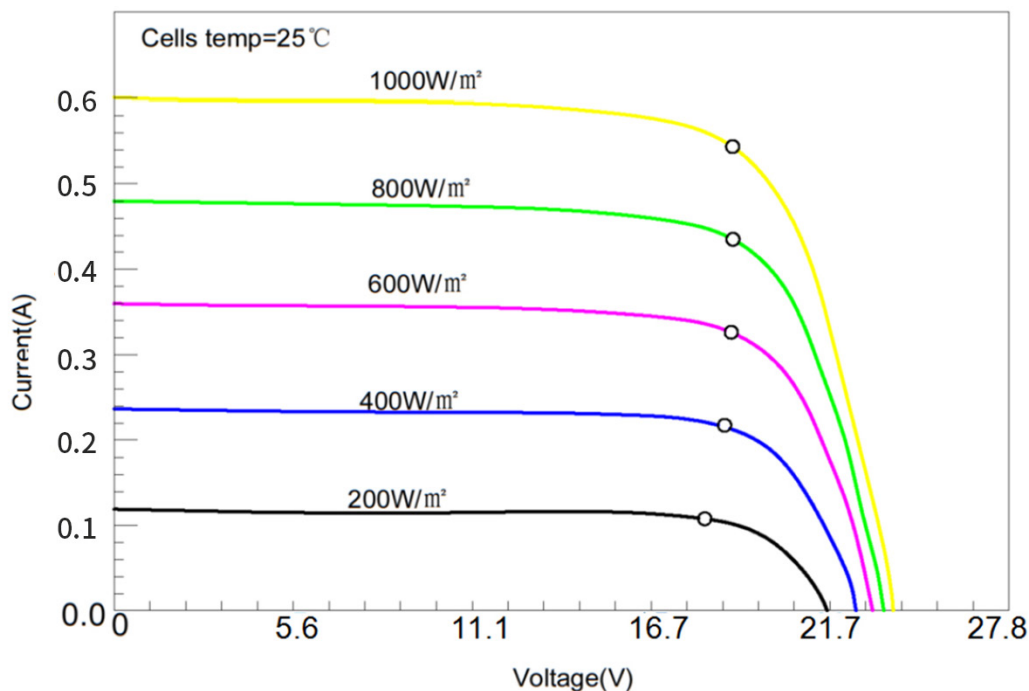
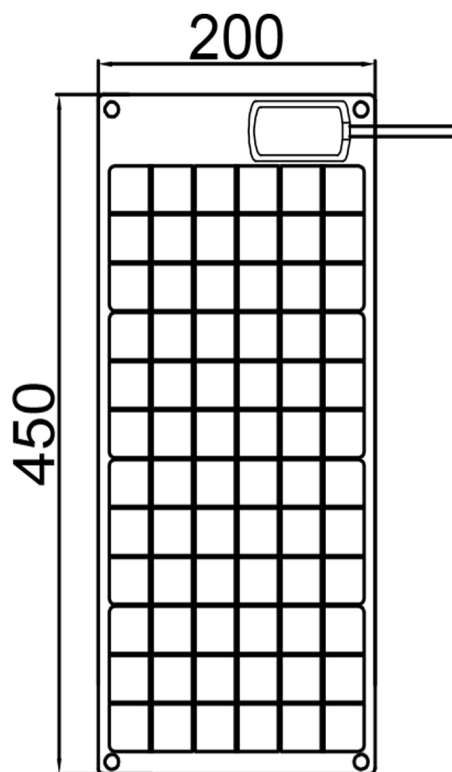
Spectralite SemiFlex Pro

| 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  | 600 X 365 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  |

# Spectralite SemiFlex 10W

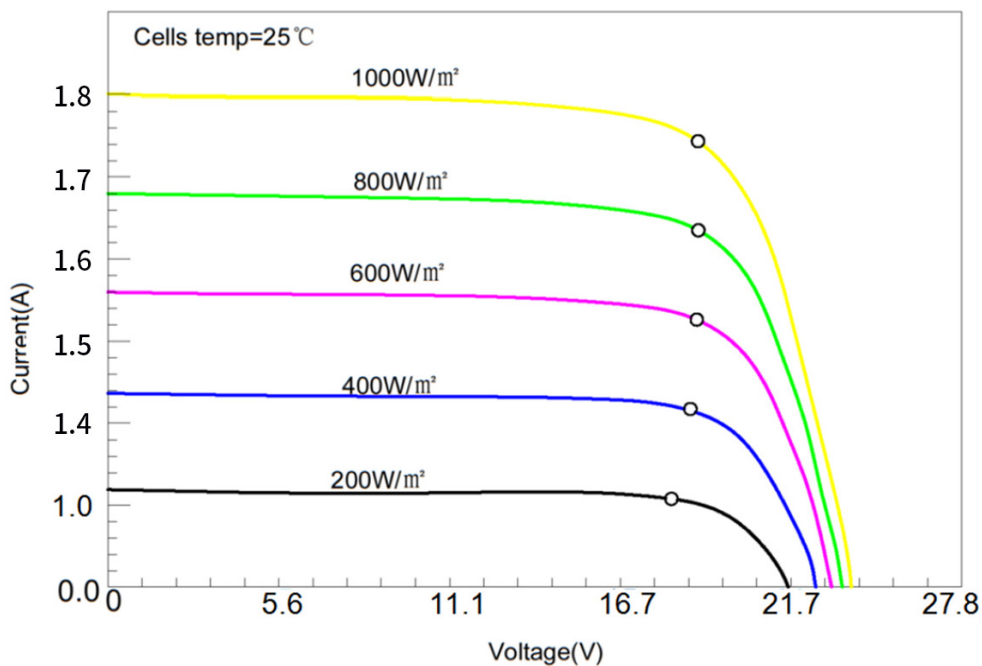
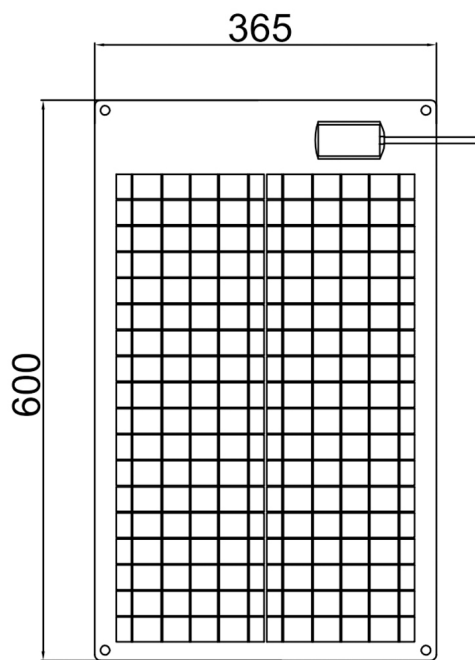


|                                 |                                    |
|---------------------------------|------------------------------------|
| Model                           | CA-10/450                          |
| Cell                            | 158 x 158mm / PERC Mono Solar Cell |
| Cable                           | 3m                                 |
| Size (mm)                       | 450 x 200 x 4mm                    |
| Tolerance                       | 0~ +3%                             |
| Nominal Peak Power (WP)         | 10W                                |
| V <sub>mp</sub> (V)             | 18V                                |
| I <sub>pm</sub> (A)             | 0.55A                              |
| V <sub>oc</sub> (V)             | 21.6V                              |
| I <sub>sc</sub> (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                            |



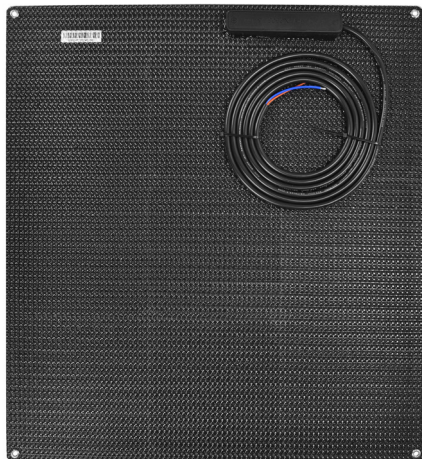
# Spectralite SemiFlex 35W

|                                 |                                    |
|---------------------------------|------------------------------------|
| 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                            |

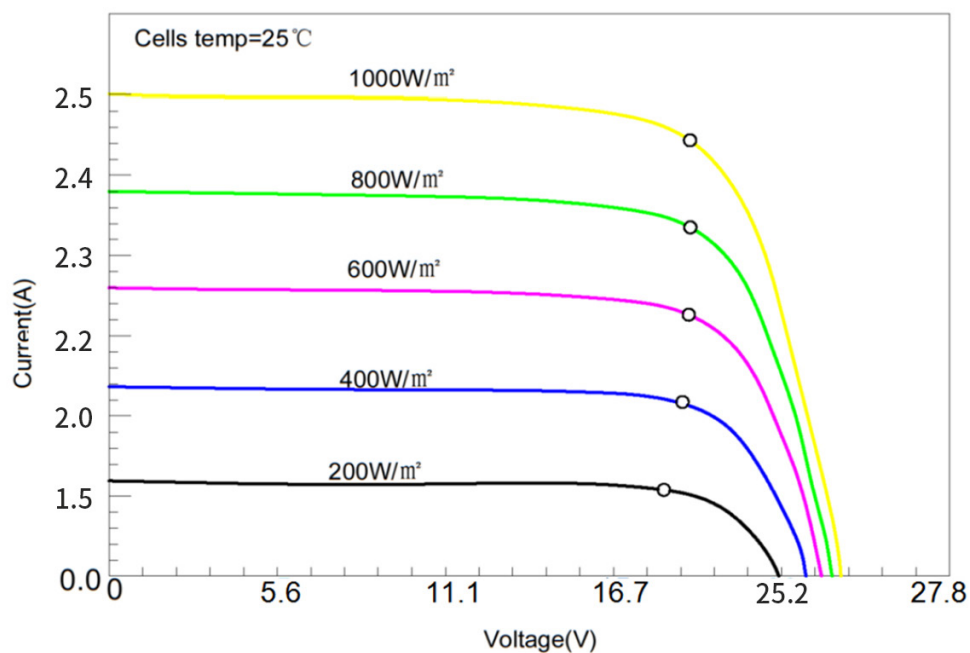
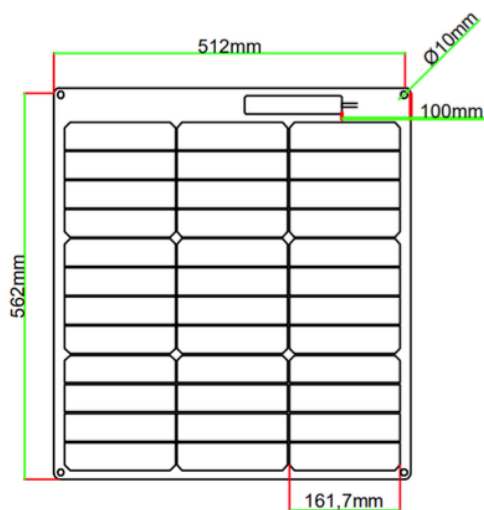




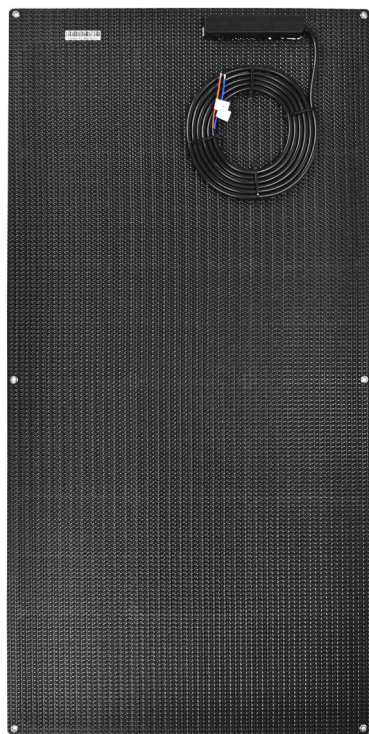
# Spectralite SemiFlex Pro 50W



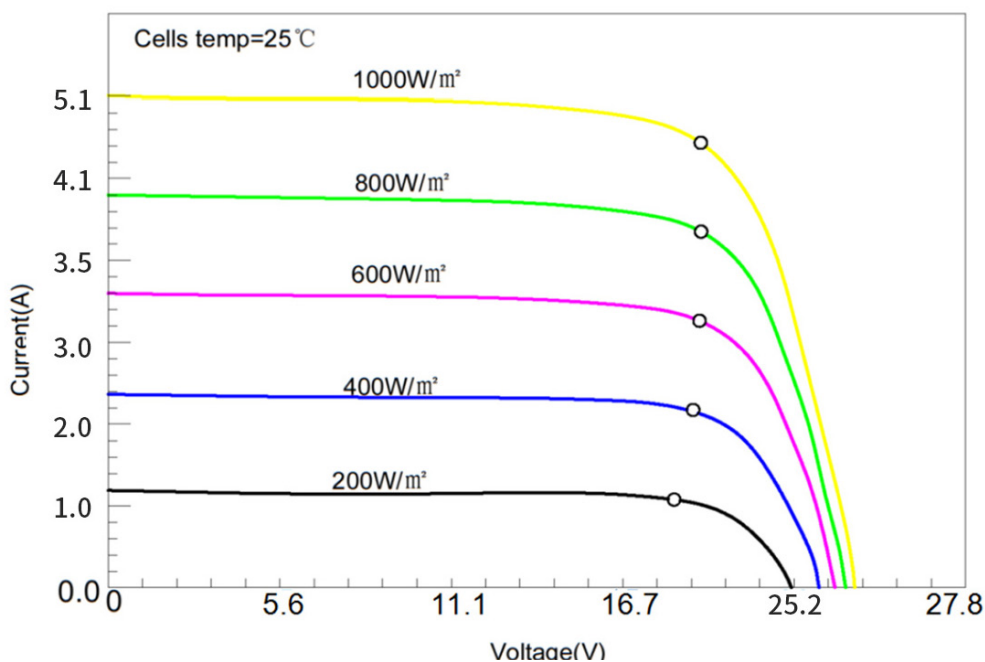
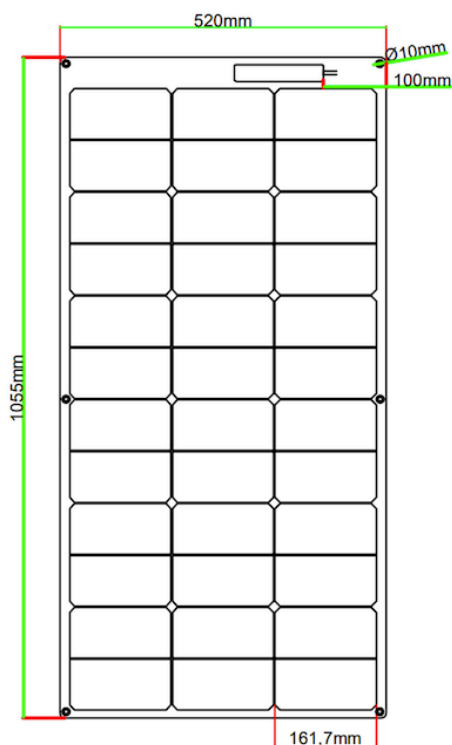
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|---------------------------------|-----------------------------------|
| Model                           | CA-10/455A                        |
| Cell                            | 161 x 161mm / SunPower Solar Cell |
| Cable                           | 3m                                |
| Size (mm)                       | 570 x 520 x 3.8mm                 |
| Tolerance                       | 0~ +3%                            |
| Nominal Peak Power (WP)         | 50W                               |
| V <sub>mp</sub> (V)             | 21V                               |
| I <sub>pm</sub> (A)             | 2.38A                             |
| V <sub>oc</sub> (V)             | 25.2V                             |
| I <sub>sc</sub> (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                           |



# Spectralite SemiFlex Pro 100W

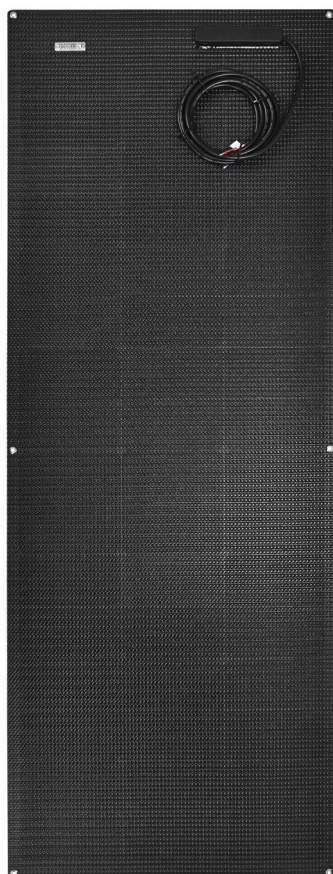


|                                 |                                   |
|---------------------------------|-----------------------------------|
| Model                           | CA-10/456A                        |
| Cell                            | 161 x 161mm / SunPower Solar Cell |
| Cable                           | 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                           |

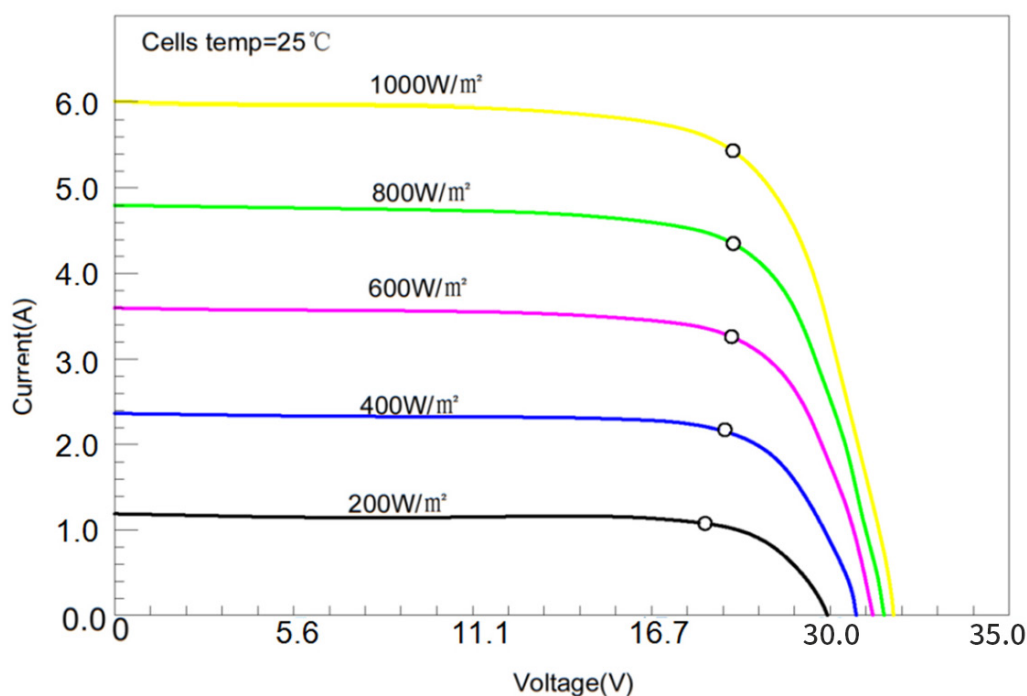
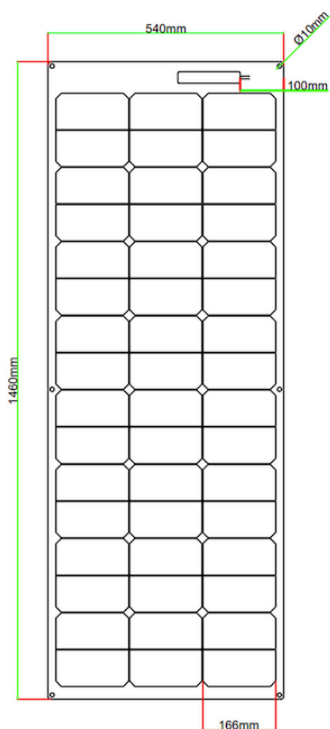




# Spectralite SemiFlex Pro 150W



|                                 |                                   |
|---------------------------------|-----------------------------------|
| 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 <sub>mp</sub> (V)             | 26.5V                             |
| I <sub>pm</sub> (A)             | 5.66A                             |
| V <sub>oc</sub> (V)             | 31.8V                             |
| I <sub>sc</sub> (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                           |





# 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 <sub>mp</sub> (V)             | 20.5V                             |
| I <sub>pm</sub> (A)             | 9.75A                             |
| V <sub>oc</sub> (V)             | 24.6V                             |
| I <sub>sc</sub> (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                           |

