

## Microcare Low Voltage Combiner Unit

The Microcare Low Voltage Combiner Unit is a critical component of any PV Solar installation providing functions such as safety and surge protection for your system. The unit offers isolation between the DC voltages that are generated by the PV modules and the solar installation allowing for safety while working or maintaining the system. With fusing and short circuit protection the PV modules and components can operate optimally with lightning protection included. Combining multiple series strings from the PV modules the unit allows for a single parallel connection to the MPPT charge controller.



- Available for combining 1 to 6 Series PV Strings into 1 Parallel Output
- Surge / Lightning Protection
- Isolation of PV DC voltages
- Fuse Protection
- Easy MC4 cable connectors
- Easily connect PV arrays to solar equipment

| LV Specifications                   | 1 String               | 2 String           | 3 String           | 4 String           | 5 String           | 6 String           |
|-------------------------------------|------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| No. of String Inputs                | 1                      | 2                  | 3                  | 4                  | 5                  | 6                  |
| Max PV Input of 135V at 25°C        | 135 VOC                |                    |                    |                    |                    |                    |
| Max Input Current per series string | 10A                    |                    |                    |                    |                    |                    |
| Fuse Rating                         | 32A ceramic            |                    |                    |                    |                    |                    |
| Input Cable Size                    | 6mm <sup>2</sup>       |                    |                    |                    |                    |                    |
| Output Cable Size                   | 6mm <sup>2</sup>       | 6mm <sup>2</sup>   | 10mm <sup>2</sup>  | 16mm <sup>2</sup>  | 25mm <sup>2</sup>  | 25mm <sup>2</sup>  |
| Input Connection                    | MC4                    |                    |                    |                    |                    |                    |
| Output Connection                   | Rail Mounted Terminals |                    |                    |                    |                    |                    |
| Dimensions (HxWxD)                  | 210 x 140 x 100 mm     | 250 x 240 x 135 mm | 260 x 300 x 130 mm | 420 x 300 x 130 mm | 420 x 300 x 130 mm | 420 x 300 x 130 mm |
| Weight                              | 1kg                    | 2kg                | 3kg                | 4kg                | 4.5kg              | 5kg                |