

# 10kW Mono-Directional AC/DC Converter



|                              |   |   |
|------------------------------|---|---|
| <b>AC Input</b>              | <b>Part Number</b>                                | <b>88102</b>  |
|                              | Input Voltage                                     | 323VAC ~ 437VAC 3 Phase without neutral                         |
|                              | Rated Input Voltage                               | 380V AC   |
|                              | Input Frequency                                   | 45Hz ~ 65Hz   |
|                              | Max. Input Current                                | < 20A   |
|                              | Power Factor                                      | ≥0.99 @ rated input and DC output with rated load               |
|                              | Input Current Harmonic                            | 5%@ rated input and DC output with rated load                   |
|                              | Input Under Voltage Protection                    | 293~313Vac (Can auto recover, test with 5A load)                |
|                              | Input Overvoltage Protection                      | 447~467Vac(Can auto recover, test with 5A load)                 |
| Input Power Derating         | Linear power derating from 50°C to 60°C operation |   |
| <b>DC Output</b>             | Rated Output Voltage                              | 650V DC @ rated AC input  |
|                              | Constant Power Range                              | Constant Power Output above 500VDC                              |
|                              | Output Voltage Range                              | 200 ~ 800V DC   |
|                              | Output Current Range                              | 0 ~ 20A   |
|                              | Output Overvoltage Protection                     | 820V  |
|                              | Output Under Voltage Alarm                        |   |
|                              | Short Circuit Protection                          | Yes   |
|                              | Voltage Stabilised Accuracy                       | ±1.0%   |
|                              | Current sharing                                   | ±5%@ at the range of 50~100% load                               |
|                              | Start Up Time                                     | normally 3s≤t≤8s  |
|                              | Efficiency  | ≥95% @ Rated input, half load output                            |
|                              | <b>Communication &amp; Alarm</b>                  | Communication   |
| Alarm & Status               |   | Display on LED panel  |
| <b>Operating Environment</b> | Operating Temperature                             | -40°C ~ +60°C @+50~ +60 derating 20% in linearity °C            |
|                              | Overtemperature Protection                        | > 60 (Auto-recoverable when temperature is less than 60 )       |
|                              | Storage Temperature                               | -40°C~ +70°C  |
|                              | Storage Humidity                                  | 95%@40 ±2   |
|                              | Altitude  | ≤4000m  |
| <b>Mechanical</b>            | Acoustic Noise                                    | ≤55dB @A-weighted, test distance is 1 meter                     |
|                              | Cooling   | Fan cooling   |
|                              | Dimensions  | 306mm (H) x 84mm (W) x 449.7mm (L) +/-0.5mm                     |
|                              | Weight  | approx 11Kg   |
|                              | MTBF  | ≥250Khour ; test condition: 25 , rated input, full load output. |