



## Series: iMOD™

### Features:

- Built with patented THiNCAPS™
- Front terminal connections
- Lowest ESR in the industry
- High Voltage in a small space

### Applications:

- Power conditioning
- Short term UPS
- Ride through power/voltage hold up
- Long life

### Markets:

- Industrial
- Critical systems
- Hospitals
- Silicon production

### Markings:

Products are marked with the following:

Rated capacitance, rated voltage, product number, name of manufacturer, positive and negative terminal marking.

#### Operating

|                       |             |
|-----------------------|-------------|
| Voltage, Rated        | 2.7 V/Cell  |
| Voltage, Surge        | 2.85 V/Cell |
| Capacitance Tolerance | +10% / -0%  |

#### Temperature

|                    |                                |
|--------------------|--------------------------------|
| Range, Operational | 0°C to 50°C (At Rated Current) |
| Range, Storage     | -25°C to 60°C                  |

#### Life

|           |   |
|-----------|---|
| DC        | 10 years, rated voltage, 25°C                       |
|           | $\Delta C < 20\%$ decrease, ESR < 100% increase     |
| Endurance | 1000 hrs, rated voltage, 70°C                       |
|           | $\Delta C < 20\%$ decrease, ESR < 100% increase     |
| Shelf     | 1000 hrs, no voltage, 70°C                          |
|           | $\Delta C < 20\%$ decrease, ESR < 100% increase     |
| Cycle     | > 500,000 cycles, Rated to half rated voltage, 25°C |
|           | $\Delta C, 20\%$ decrease, ESR, 100% increase       |

#### Standards Compliance

RoHS



## Product Specifications

| Part Number | iMOD108V011P3U-12A | iMOD189V003P3U-02A | iMOD216V002P3U-11A |
|-------------|--------------------|--------------------|--------------------|
|-------------|--------------------|--------------------|--------------------|

### Electrical

|                                    |      |     |     |
|------------------------------------|------|-----|-----|
| Capacitance (F)                    | 11.4 | 3   | 2   |
| ESR, DC $\leq$ (m $\Omega$ ) [3ms] | 16   | 103 | 89  |
| Overvoltage Monitor                | Yes  | Yes | No  |
| Voltage Rated (V)                  | 108  | 189 | 216 |
| Peak Voltage                       | 114  | 200 | 228 |

### Cycling

|                            |      |      |      |
|----------------------------|------|------|------|
| Current, Peak [1s] (A)     | 520  | 217  | 183  |
| Continuous Current (A)*    | 32   | 13   | 35   |
| Current, Short Circuit (A) | 6700 | 1800 | 2400 |

### Management

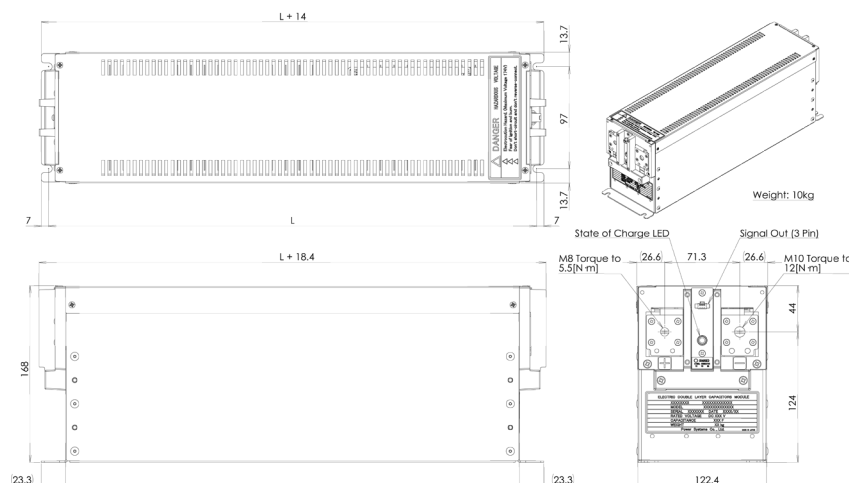
|                  |         |         |         |
|------------------|---------|---------|---------|
| Balancing Method | Passive | Passive | Passive |
|------------------|---------|---------|---------|

### Energy/Power

|                           |      |      |      |
|---------------------------|------|------|------|
| E <sub>max</sub> (Whr)    | 18   | 15   | 13   |
| E <sub>max</sub> (Whr/kg) | 1.8  | 2.1  | 1.3  |
| E <sub>max</sub> (Whr/L)  | 2.0  | 2.2  | 1.0  |
| P <sub>max</sub> (kW/kg)  | 18.2 | 12.4 | 13.1 |
| P <sub>max</sub> (kW/L)   | 20.0 | 12.8 | 10.6 |
| P <sub>d</sub> (kW/kg)    | 8.7  | 5.9  | 6.3  |

### Physical

|                            |     |     |      |
|----------------------------|-----|-----|------|
| W (mm) [max]               | 125 | 125 | 182  |
| L (mm) hole center to H.C. | 410 | 307 | 337  |
| H (mm)                     | 179 | 177 | 202  |
| Mass (kg)                  | 10  | 7   | 10   |
| Volume (L)                 | 9.1 | 7   | 12.4 |



### Additional Technical Information

Product specification test methods available in separate document.

\*Rated current = continuous current with 20°C temperature rise.



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