

PASSIVELY BALANCED ULTRACAPACITOR MODULES

# **FEATURES**

- Passive cell balancing
- Rugged, fully enclosed system
- Screw terminals
- UL-recognized cells
- Accessory pack included:
  1 bus bar; 4 spring pins; 4 screws

#### **APPLICATIONS**

- Automotive subsystems
- Heavy-duty vehicle subsystems
- Windmill pitch control systems
- Wireless transmission



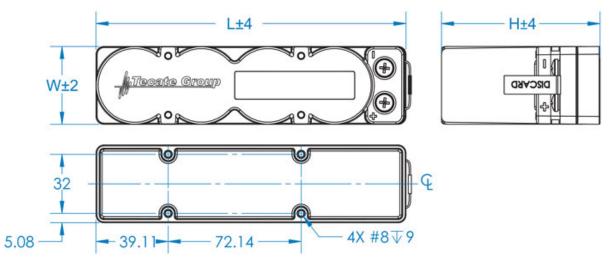
#### **GENERAL SPECIFICATIONS**

| Item   | Performance  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
| Operating temperature  | -40°C to +65°C   |  |  |  |  |  |  |
| Storage temperature  | -40°C to +70°C   |  |  |  |  |  |  |
| Capacitance  | 100F   |  |  |  |  |  |  |
| Rated voltage  | 12 VDC   |  |  |  |  |  |  |
| Temperature characteristics  | Capacitance change: Within ±5% of initial measured value at +25°C (-40°C to +65°C)<br>Internal resistance: Within ±50% of initial measured value at +25°C (at -40°C)                         |  |  |  |  |  |  |
| Endurance<br>(At rated voltage & max. operating<br>temp)                     | After 1500 hours, the capacitor shall meet the following limits:<br>Capacitance change: Within ±30% of initial rated value<br>Internal resistance: Within 2 times of initial specified value |  |  |  |  |  |  |
| Projected Load life<br>(At rated voltage & 25°C)                             | After 10 years:<br>Capacitance change: Within ±20 % of initial rated value<br>Internal resistance: Within 2 times of initial specified value   |  |  |  |  |  |  |
| Projected cycle life<br>(From rated voltage to 1/2 rated<br>voltage at 25°C) | After 500,000 cycles:<br>Capacitance change: Within ±20 % of initial rated value<br>Internal resistance: Within 2 times of initial specified value   |  |  |  |  |  |  |
| Shelf life   | After 2 years at 25°C without load, the capacitor shall meet the specified endurance limits.   |  |  |  |  |  |  |



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### DIMENSIONS



## STANDARD PRODUCTS

| Part Number     | Nom. GMV<br>Cap. (F) (F)* | GMV  | ESR DC<br>(mΩ) | ESR AC<br>(mΩ)<br>(1 KHz) | Leakage<br>Current (mA)<br>(72 hrs @<br>25C) | Dimensions (mm) |    |    | Rated<br>Current | Weight/Unit |  |
|-----------------|---------------------------|------|----------------|---------------------------|--|-----------------|----|----|------------------|-------------|--|
|                 |                           | (F)* |                |                           |  | L               | w  | н  | (A)              | (grams)     |  |
| PBLH-12R0/100WT | 100                       | 100  | 25             | 20                        | 10   | 168             | 42 | 86 | 171              | 488         |  |
|                 |                           |      |                |                           |  |                 |    |    |                  |             |  |

\*NOTE: GMV = Guaranteed Minimum Value.