## PB-2500J Series

Industrial-grade Intelligent Supercapacitor-based Uninterruptible Power Backup Module


## Introduction

Neousys' PB-2500J series is an innovative power backup solution for demanding industrial applications. Utilizing supercapacitor technology, it features $-25^{\circ} \mathrm{C}$ to $65^{\circ} \mathrm{C}$ operating temperature range and extremely high durability. Compared to traditional battery-based UPS systems, PB-2500J series can sustain superb reliability in extreme temperature environments and eliminates the drawback of battery performance degradation over time.
PB-2500 series is composed of eight 100F supercapacitors to provide 2500 watt-second stored energy to sustain your computer during power outage and depending on your system's power consumption, it could be from seconds to minutes. But what makes PB-2500J novel is its patented CAP energy management technology, an on-board processor that constantly monitors power consumption and evolves with the system. During a power outage, it maximizes the system operation time by estimating the perfect time to initiate system shutdown to prevent data loss.
PB-2500 series is available in two form-factors; PB-2500J-PCle is a plug-and-play PCle card specifically designed for Neousys Nuvo-6000 (except Nuvo$6108 \mathrm{GC} /$ IGN ) while PB-2500J-CSM is designed for Nuvo-5000E/ P and Nuvo-7000E/ P series.
When it comes to industrial embedded controllers, stability and data loss prevention during power outages are just as important. Neousys' PB-2500J series aims to redefine reliability and take it to another level. With PB-2500J series, unexpected power loss and unstable power lines are a thing in the past!

## Specifications

|  | PB-2500J-PCle | PB-2500J-CSM |
| :--- | :---: | :---: |
| Supercapacitor configuration | $8 \times 100 \mathrm{~F}, 3.0 \mathrm{~V}$ ultracapacitors |  |
| Capacity | 2500 watt-second |  |

2 $\quad>10$ years @ $25^{\circ} \mathrm{C}$ with 2500 w.s capacity* 76,000 hours @ $35^{\circ} \mathrm{C}$ with 2500 w.s capacity 34,000 hours @ $45^{\circ} \mathrm{C}$ with 2500 w.s capacity* 15,000 hours @ $55^{\circ} \mathrm{C}$ with 2500 w•s capacity* 7,200 hours @ $65^{\circ} \mathrm{C}$ with 2500 w•s capacity*
Expected lifespan

Expected lifespan is $2.2 x$ when configured as 2100 watt-second energy capacity, or 4.8 x when configured as 1750 watt-second energy capacity.
 increase up to $100 \%$ from initial values.

## Ordering Information

| Model No. | Product Description |
| :--- | :--- |
| PB-2500J-PCle | Intelligent supercapacitor-based power backup PCle card with $2500 \mathrm{w} \cdot \mathrm{s}$ energy capacity |
| PB-2500-CSM5 | Intelligent supercapacitor-based power backup Cassette module with 2500 w•s energy capacity, for Nuvo-5000 series |
| PB-2500J-CSM7 | Intelligent supercapacitor-based power backup Cassette module with 2500 w•s energy capacity, for Nuvo-7000 series |

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[^0]:    *Note: NOT compatible with Nuvo-6108GC, Nuvo-6108GC-IGN and Nuvo-8208GC

