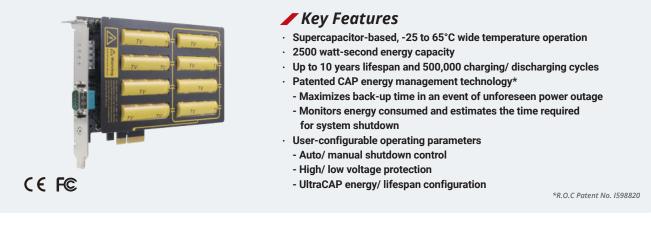
PB-2500J Series

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°C to 65°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-2500J 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-2500J series is available in two form-factors; PB-2500J-PCIe is a plug-and-play PCIe card specifically designed for Neousys Nuvo-6000 (except Nuvo-6108GC/ 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-PCIe | PB-2500J-CSM |
|------------------------------|--|--|
| Supercapacitor configuration | 8x 100F, 3.0V ultracapacitors | |
| Capacity | 2500 watt-second | |
| Expected lifespan | 76,000 hours @ 35° 34,000 hours @ 45° 15,000 hours @ 55° 7,200 hours @ 65° Expected lifespan is 2.2x when config | : with 2500 w-s capacity* ^c C with 2500 w-s capacity* ^c C with 2500 w-s capacity* C with 2500 w-s capacity* C with 2500 w-s capacity* gured as 2100 watt-second energy capacity, 1750 watt-second energy capacity. |
| Lifecycle | 500,000 charging/ discharging cycles* | |
| Communication interface | 3-wire RS-232 | |
| Dimension | Half-length PCle card 167 mm (W) x 111 mm (H) | - |
| Operating Temperature | -25°C ~ 65°C | |
| Storage Temperature | -40 °C~ 70°C | |
| EMC | CE/FCC Class A, according to EN 55022 & EN 55024 | |

*Once the rated lifespan or cycle life has been reached, the capacity of ultracapacitor may decrease up to 30% and ESR may increase from the initial value to the full value.

Ordering Information

| Model No. | Product Description | |
|---------------|---|--|
| PB-2500J-PCIe | Intelligent supercapacitor-based power backup PCIe card with 2500 w·s energy capacity | |
| PB-2500J-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 | |

*Note: NOT compatible with Nuvo-6108GC, Nuvo-6108GC-IGN and Nuvo-8208GC