

PB-2580J-SA

Industrial-grade and intelligent standalone supercapacitor UPS module

Features

- Universal standalone emergency power module
- Service life of over 10 years or 500,000 charge/discharge cycles
- Patented CAP energy management technology
- Ignition control operation for box PCs & vehicle on-board controllers
- Operating temperature: -25 °C ~ 65 °C



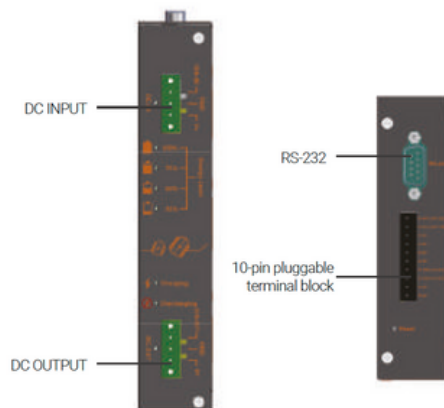
PB-2580J-SA – Innovative power failure protection

The PB-2580J-SA from the PB series is a stand-alone power backup module that can protect your box PCs from power failures. Equipped with the latest supercapacitor technology, it can cope with extreme environmental conditions from -25°C to 65°C and is extremely durable with a service life of over 10 years.

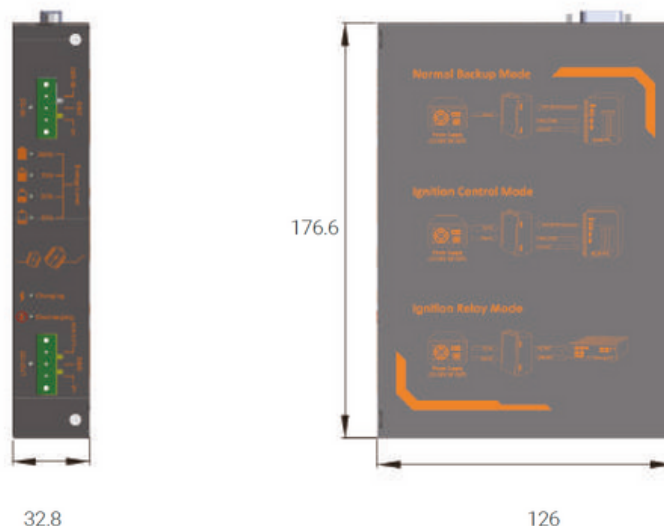
Powerful and flexible

The PB-2580J-SA consists of eight 100F/2.7V supercapacitors and provides 2580 watt seconds of energy to ensure extended uptime for your system. Thanks to Neusys' patented CAP power management technology, it can reliably deliver up to 180W of power to the system and manage boot-ups and automatic shutdowns without additional drivers/software.

Appearance



Dimensions (in mm)



PB-2580J-SA

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| Specifications | PB-2580J-SA |
|------------------------------|--|
| SYSTEM | |
| Composition | 8x 100F, 2.7V, supercapacitors |
| Capacity | 2580 watt-second |
| Expected lifespan | >10 years[1] |
| Lifecycle | 500,000 charging/ discharging cycles[1] |
| POWER REQUIREMENT | |
| Power Input | 12 to 35V DC input |
| Input Connector | 1x 3-pin pluggable terminal block (V+, GND, IGN_IN) |
| Output Voltage | Charge mode: DC_IN bypass (DC_OUT = DC_IN) Discharge mode: 12 or 24V[3] |
| Output Power | Maximum 70W output[2] |
| Output Connector | 1x 3-pin pluggable terminal block (V+, GND, IGN_OUT) |
| INTERFACE | |
| COM | 1x DB-9 for 3-wire RS-232 |
| Isolated DIO | 1x 10-pin pluggable terminal block for – PWR_BTN# output – SYS_STAT input |
| ENVIRONMENTAL | |
| Operating Temperature | -25°C ~ 65°C -40°C ~ 85°C with reduced energy capacity |
| Storage Temperature | -40 °C ~ 85 °C |
| Vibration / Shock Resistance | Vibration: Operating, MIL-STD-810G, Method 514.6, Category 4 Shocks: Operating, MIL-STD-810G, Method 516.6, Procedure I, Table 516.6-II |
| Dimensions | 32.8 (W) x 176.6 (H) x 126 (D) mm |
| Weight | 0.93 kg |
| Mounting | DIN rail-mounting (standard) or wall-mount (optional) |
| Certification | CE/FCC Class A, according to EN 55032 & EN 55024 |

[1] To achieve > 10 years lifespan under 24/7 at 65°C operation, please charge PB-9250J-SA to 6525J energy level using the 4.8x SuperCAP Lifetime Extension setting (please refer to the user manual for details). Once the rated lifetime or cycle life has been reached, the capacity of supercapacitor may decrease up to 30% and ESR may increase up to 100% from initial values.

[2] Backup time for uninterruptible operation may be reduced when sustaining a back-end system with high power consumption. Please consult with Neosys Technology if your computer accepts only constant-voltage input.

[3] To ensure PB-9250J and PB-4600J's power backup operation functions as intended, please contact Neosys Technology technical support if your connecting back-end system accepts only constant voltage input.

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| Ordering Information | PB-2580J-SA |
|-----------------------------|--|
| MODEL NO. | |
| PB-9250J-SA | Standalone intelligent supercapacitor-base power backup module with 9250 W-s energy capacity |
| PB-4600J-SA | Standalone intelligent supercapacitor-base power backup module with 4600 W-s energy capacity |
| PB-2580J-SA | Standalone intelligent supercapacitor-base power backup module with 2580 W-s energy capacity |
| OPTIONAL ACCESSORIES | |
| Wmkit-V-PB9250J | Wall-mount assembly for PB Series, vertical type |