

PB-4600J-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



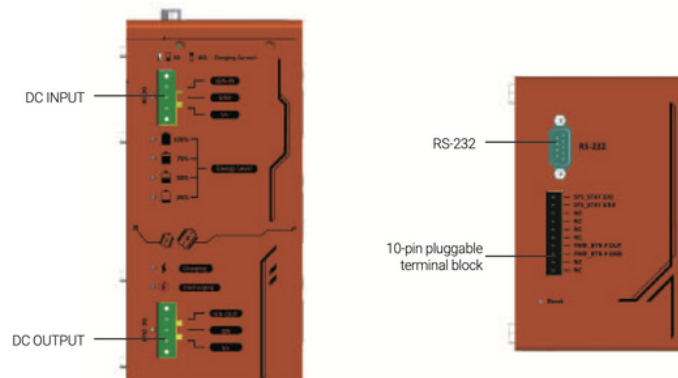
PB-4600J-SA – Protection for your Box PC during power failures

The PB-4600J-SA is a self-contained power failure protection module that can protect your Box PC from power failures. Equipped with the latest supercapacitor technology, it can operate in harsh environments from -25 to 65°C and has an extremely high durability that lasts for over 10 years.

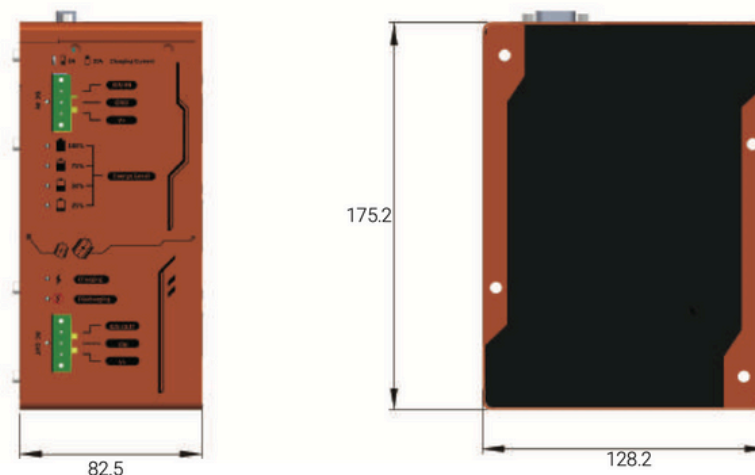
State-of-the-art supercapacitors for longevity

The PB-4600J-SA consists of four 370F/ 3.0V supercapacitors that offer a much longer lifespan than their 2.7V counterparts, storing 4600 watt seconds of energy to ensure extended uptime to back up your system. Thanks to Neosys' patented CAP power management technology, it can reliably deliver 100W of power to the backend system and automatically manage startup and shutdown without the need to install additional drivers or software.

Appearance



Dimensions (in mm)



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Specifications	PB-4600J-SA
SYSTEM	
Composition	4x 370F, 3.0V, supercapacitors
Capacity	4680 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 100W 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: Compliant with IEC61373:2010, Category 1, Class B Body mounted (part of EN50155) Shocks: Compliant with IEC61373:2010, Category 1, Class B Body mounted (part of EN50155)
Dimensions	82.5 (W) x 175.2 (H) x 128.2 (D) mm
Weight	1.68 kg
Mounting	DIN rail-mounting (standard) or wall-mount (optional)
Certification	Compliant with EN50155:2007, CE/FCC Class A, according to EN 55032 & EN 55035

[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-4600J-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