

Backplane Systems Technology Pty Ltd

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PB-9250J-SA/ PB-4600J-SA/ PB-2580J-SA

Industrial-grade Standalone Intelligent Supercapacitor-based Uninterruptible Power Backup Module



The PB series is a standalone power backup module that can protect your box-PC against power outages. Utilizing state-of-the-art supercapacitor technology, it can operate in harsh environments from -25°C to 65°C and have extremely high durability lasting over 10 years.

PB-9250J-SA and PB-4600J-SA are composed of eight and four 370F/ 3.0V supercapacitors, respectively, while PB-2580J-SA is composed of eight 100F/ 2.7V supercapacitors. They each offer 9250, 4600 and 2580 watt-second energy to offer extra extended operation time to backup your system.

Thanks to Neousys' patented CAP energy management technology, It can reliably supply up to 180W of power to the back-end system and automatically manage boot and shutdown without installing additional drivers/ software. In addition to the UPS-like power backup mode, it also offers two advanced ignition control modes for in-vehicle usage.

PB-9250J-SA can work with either standard box-PC or in-vehicle controller to provide a stable power supply and execute user-configurable poweron/ power-off delay according to IGN signal input. Featuring various modes, automatic shutdown control and up to 180W output power, Neousys PB series can work with most off-the-shelf box-PCs. And with properties such as maintenance-free energy storage and uninterruptible power supply, the PB series can prevent the connected back-end system from data loss during a power outage in harsh industrial environments!



Specifications

PB-9250J-SA	PB-4600J-SA	PB-2580J-SA		
Supercapacitor Configuration				
8x 370F, 3.0V supercapacitors	4x 370F, 3.0V supercapacitors	8x 100F, 2.7V supercapacitors		
9250 watt-second	4600 watt-second	2580 watt-second		
>10 years *				
500,000 charging/ discharging cycles*				
tion				
12 to 35V DC input				
1x 3-pin pluggable terminal block (V+, GND, IGN_IN)				
Charge mode: DC_IN bypass (DC_OUT = DC_IN) Discharge mode: 12 or 24V***				
Maximum 180W output**	Maximum 100W output**	Maximum 70W output**		
1x 3-pin pluggable terminal block (V+, GND, IGN_OUT)				
1x DB9 for 3-wire RS-232				
1x 10-pin pluggable terminal block for - PWR_BTN# output - SYS_STAT input				
	Configuration 8x 370F, 3.0V supercapacitors 9250 watt-second 500,000 cl clion 1x 3-pin pluggable Charge mode: Discha Maximum 180W output** 1x 3-pin pluggable 1x 1 1x 10-pin	Configuration 8x 370F, 3.0V 4x 370F, 3.0V supercapacitors supercapacitors 9250 watt-second 4600 watt-second >10 years * 500,000 charging/ discharging c 500,000 charging/ discharging c 12 to 35V DC input 1x 3-pin pluggable terminal block (V+, Charge mode: DC_IN bypass (DC_OU Discharge mode: 12 or 24V* Maximum 180W Maximum 100W output** 1x 3-pin pluggable terminal block (V+, G 1x 3-pin pluggable terminal block (V+, G 1x DB9 for 3-wire RS-232 1x 10-pin pluggable terminal block - PWR_BTN# output		

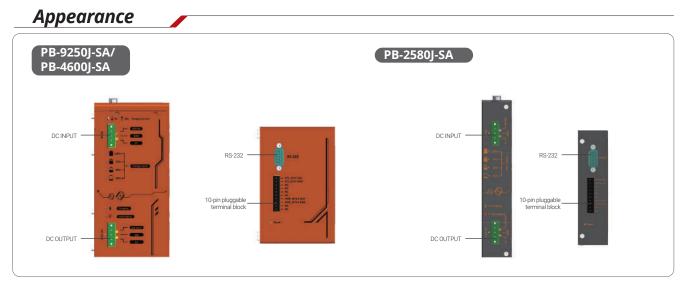
	PB-9250J-SA	PB-4600J-SA	PB-2580J-SA
Mechanical			
Dimension	82.5mm(W) x 175.2mm(H) x 128.2mm(D)		32.8mm(W) x 176.6mm(H) x 126mm(D)
Weight	1.7 kg	1.68 kg	0.93 kg
Mounting	DIN-rail mount (standard) or Wall-mount (optional)		
Environmental			
Operating Temp.	-25°C ~ 65°C -40°C ~ 85°C with reduced energy capacity		
Storage Temp.	-40°C ~ 85°C		
Vibration	Compliant with IEC61373:2010, Category 1, Class B Body mounted (part of EN50155) Operating, MIL 514.6, Category		
Shock	Compliant with IEC61373:2010, Category 1, Class B Body mounted (part of EN50155) T6.6, Procedu Table 516.6-		
EMC	Compliant with CE/FCC Class A, accord 550	CE/FCC Class A, according to EN 55032 & EN 55024	

rated lifetime or cycle life has been reached, the capacity of supercapacitor may decrease up to 30% and ESR Tated meetine of cycle me has been reached, me capacity of supercapacitor may decrease up to 30% and ESR may increase up to 100% from initial values. ** Backup time for uninterruptible operation may be reduced when sustaining a back-end system with high power consumption. Please consult with Neousys Technology if your computer accepts only constant-voltage instant.

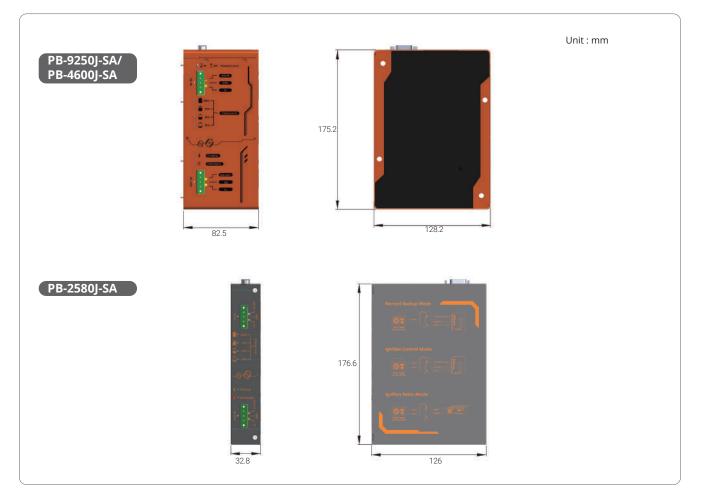
input.

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





Dimensions



Ordering Information

Model No.	Product Description	
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	