



BBX034024SBS / BBX034024 / BBX034000

24 V – 3.4 Ah Battery Energy Storage units for DC-UPS systems and critical DC loads

- Lead-acid AGM, VRLA battery technology
- Maintenance-free
- Quick installation on DIN rail or direct on mounting plate
- Automatic detection and continuous monitoring by DCU Series DC-UPS
- Tool-free battery replacement during operation
- Communication with DCU DC-UPS via signal serial port (SBS version)
- Built-in Temperature compensation probe (SBS version)
- Suitable for backup of high inrush current DC loads and for maximum buffer times.
- Delivered fully charged from warehouse
- Built-in protection fuse plus spare

Norms and certifications

Compliance	EN 50178/VDE 0160 (PELV) EN IEC 61000-6-2:2005 EN IEC 61000-6-3:2007+A1:2011 EN IEC 50581:2012
Declaration of Conformity	CE, UKCA

Commercial data

Weight per unit, including packing	3.7 kg (0.6 kg)
Dimensions and Volume per unit, including packing (W x H x D)	175 x 181 x 94 mm – 0.003 m ³
Custom Tariff	85072080
Country of origin	Italy

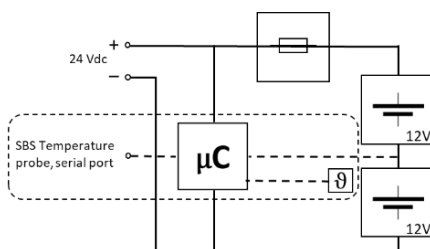


Figure 1- SBS Block Diagram



Figure 2 - Opening flip-flange for mounting plate fastening

BBX034024 – 3.4 Ah - Buffer Time							
Load Current (A)	1.5	3	5	7.5	10	15	20
Minutes	60	30	15	30	7	NA	NA

Figure 3 – Buffer Time

Technical Data

Code	BBX034024SBS	BBX034024	BBX034000
	Battery Box with SBS temperature probe and signal connection	Basic Battery Box	Casing and inner wiring only
Rated Input/Output Voltage	24 Vdc	24 Vdc	(24 Vdc)
Nominal Capacity	3.4 Ah		(3.4 Ah)
Battery Type	Lead-acid AGM, VRLA		-
Connection in parallel	Yes		-
Connection in series	Yes		-
Max. permissible charging current	0.4 A		-
Max permissible discharging current.	25 A		-
Max Charging voltage (Fast Charge)	28.8 V		-
Float Charging voltage	27.4 V		-
LVD-Low Voltage Disconnection from DCU	< 19 V		-
Self discharge rate	≤3%/month		-
Fast Charging	Suitable for Fast Charging		-
Number of blocks	2		-
Number of cells per block	6		-
Internal Fuse, type Mini		25 A	
Spare Fuse type Mini		25 A	

Signal Output/Input

Serial Port Communication	UART connector	-	-
Temperature compensation	Built-in SBS Temperature probe	-	-

Ambient Data

Ambient Temperature (operation)	0 °C / +40 °C	-
Ambient Temperature Storage or transport)	0 °C / +40 °C	-
Max Relative Humidity (operation)	95% RH	-
Environment Pollution Degree EN/IEC 60947-1	2	-

Mechanical Data

Housing Material	Aluminium and galvanized steel sheet	
Mounting position	Vertical on DIN rail or On Mounting plate	
Connection	Screw type terminals 0.5-16 mm ² (20-6 AWG)	
Dimensions (W x H x D)	155 x 172 x 89 mm	
Weight	3.5 kg	0.4 kg

Protection Categories

Protection degree (EN/IEC 60529)	IP 20
Protection Class EN/IEC 61140	III
Battery Disposal	Not in domestic disposal, follow National rules

Drawings

