



BBX120024SBS / BBX120024 / BBX120000

24 V – 12 Ah Battery Energy Storage units for DC-UPS systems and critical DC loads

- Lead-acid AGM, VRLA battery technology
- Maintenance-free
- Quick installation 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	7.3 kg (0.9 kg)
Dimensions and Volume per unit, including packing (W x H x D)	230 x 230 x 125 mm – 0.0038 m ³
Custom Tariff	85072080
Country of origin	Italy

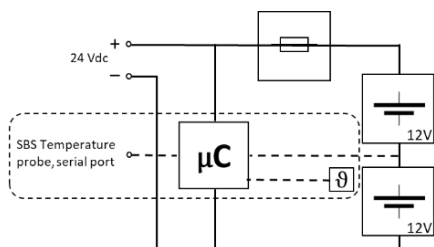


Figure 1- SBS Block Diagram

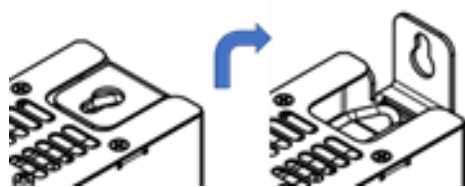


Figure 2 - Opening flip-flange for mounting plate fastening

BBX120024 - 12 Ah							
Load Current (A)	1.5	3	5	7.5	10	15	20
Minutes	400	240	100	60	45	20	12

Figure 3 – Buffer Time

Technical Data

Code	BBX120024SBS	BBX120024	BBX120000
	Battery Box with SBS temperature probe and signal connection	Battery Box	Casing and inner wiring only
Rated Input/Output Voltage	24 Vdc	24 Vdc	(24 Vdc)
Nominal Capacity	12 Ah		(12 Ah)
Battery Type	Lead-acid AGM, VRLA		-
Connection in parallel	Yes	-	-
Connection in series	Yes	-	-
Max. permissible charging current	3.6 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	-

Protection Categories

Protection degree (EN/IEC 60529)	IP 20
Protection Class EN/IEC 61140	III
Battery Disposal	Do not dispose in domestic waste, follow National rules

Mechanical Data

Housing Material	Aluminium and galvanized steel sheet	
Mounting position	Vertical On Mounting plate	
Connection	Screw type terminals 0.5-16 mm ² (20-6 AWG)	
Dimensions (W x H x D)	219 x 220 x 115 mm	
Weight	7.2 kg	0.8 kg

BBX120

BATTERY BOX

Drawings

