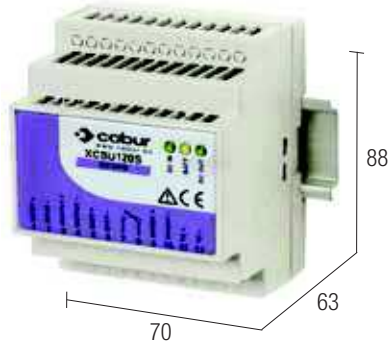
Accessory for charging and checking buffer batteries

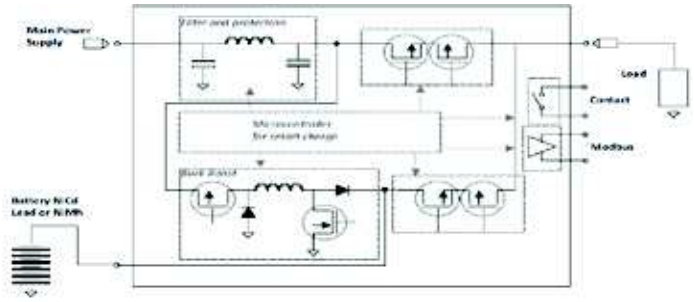
- Power supply connection, supplies energy to the load and maintains the backup battery
- Suitable for Lead-Acid, NiMH and Ni-Cd batteries
- 12 V or 24 V battery voltages with a load current of up to 5 A
- High efficiency and low consumption
- Small size



NOTES

(1) Programmable

BLOCK DIAGRAM



VERSIONS	Code XCSU120S
	CSU120S
INPUT TECHNICAL DATA	
Power supply input voltage	**12-24 Vdc** (range 10…16 Vdc / 20…29 Vdc)
Maximum input current	5 A
OUTPUT TECHNICAL DATA	
Load voltage	**12-24 Vdc (1)**
Load current	5A max. to 20°C / 4A max. to 45°C
Status display	Normal operation failure contact (Ready) Battery operation failure contact (Backup) Green LED "DC OK" Battery charge yellow LED / Battery supplies the charge
Communication	RS485 - ModBus RTU
TECHNICAL DATA BATTERIES	
Battery type	Lead-Acid, NiMH, Ni-Cd
Battery nominal voltage	**12 or 24 Vdc (1)**
Maximum load current	500 mA (1)
Nominal capacity range	1.2 ...10Ah
Backup lag time	n/a
Protections	reverse polarity/overload/deep discharge
GENERAL TECHNICAL DATA	
Efficiency	>90%
Dissipated power	< 2W
Operating temperature range	-20...+60°C
Input/output isolation	-
Input/PE isolation	-
Output/PE isolation	-
Safety standards	EN60950
Electromagnetic compatibility	EN61000-6-2, EN61000-6-4
MTBF at 25°C and nominal ratings	>500'000 h according to SN 29500 / >150'000 h according to MIL Std. HDBK 217F
Overvoltage category / Pollution degree	II / 2
Protection degree	IP 20 IEC 529, EN60529
Connection type	2.5 mm² screw-clamp terminal blocks
Housing material	aluminium
Approximate weight	200 g
Mounting information	vertical on rail, allow 5 mm spacing between adjacent components
MOUNTING ACCESSORIES	
Mounting rail type according to IEC60715/TH35-7.5	**PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB**
Mounting rail type according to IEC60715/G32	—

APPLICATIONS

XCSU120S is a smart battery equipped with a microprocessor to determine the most appropriate charging and monitoring algorithm to ensure battery efficiency. Using an external DC power source, XCSU120S is able to charge universal and NiCd, NiMh and lead acid batteries.

PRODUCT FEATURES:

- Independent 12 or 24 V input, output and battery voltages (microprocessor sets the voltage to the required level)
- It is no longer necessary to increase the voltage of the power supply to allow the battery to charge, resulting in an increase of the output voltage
- The device is supplied with a default setting that can be changed with a simple ModBus connection, which can also be used to monitor functions and establish a direct connection to a PLC
- Integrated software allows you to select battery type and capacity, with the microprocessor selecting the most appropriate charging algorithm and monitoring its efficiency
- System monitoring with two available remote alarms that can be set to no network power, battery on, battery efficiency, battery overtemperature, output overload
- Programmable remote control for turning battery charging, output and alarms on/off
- Programmable on/off timer
- DIP-switch programming for most functions