

Зарядное устройство с контролем заряда серии UPS



Accessory for charging and controlling buffer batteries

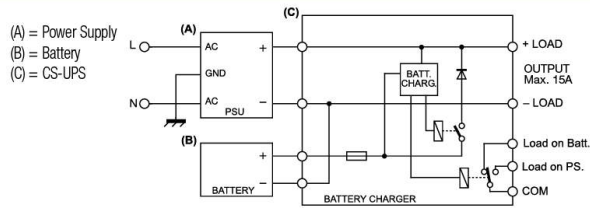
- Suitable for power supply with adjustable output
- Suitable for lead batteries
- Suitable for charging batteries while feeding loads
- Battery protection fuse
- "Deep discharge" battery protection
- Status display LED and failure contact



NOTES

The depth dimension includes the DIN rail clamp.

BLOCK DIAGRAM



VERSIONS	Cod. XCSUPS1	Cod. XCSUPS2	APPLICATIONS
Output 24 Vdc Output 12 Vdc	CS-UPS1	CS-UPS2	All power supplies with adjustable output voltage to +15% of rated voltage can be used as lead battery chargers, suitable to be used as back up supply in case of AC line breakdown. The CS-UPS-1 circuit regulate the current charging the battery, and it is possible to set it up to 2A or 4A charging current ; CS-UPS1 disconnects the load from the battery whenever the battery voltage drops under 19Vdc, to avoid total discharge which always shortens battery life. The module is provided with a fuse protecting the battery and its cable to prevent fire risk in case of short circuit. The module is provided with the following leds display: PS OK: The green LED is on when the power supply feeding the CS-UPS1 is OK and the load is supplied by the power supply while the battery is continuously charged. LOAD OK: Yellow LED is on when CS-UPS1 feeds the load. BATT. OK: Green LED is on when the power supply is turned OFF or disconnected and indicates that the battery is connected and can feed the load. BATT. LOW: Red LED on when the battery is low or discharged. REVERSE BATTERY: Red LED is on when battery is connected with reverse polarity. Alarm contact: a relay with an SPDT contact 1A/24V switches when the load is no more supplied by the power supply and then is supplied by the battery. This contact allows to get a remote warning on the status of the system even in the case that the power supply is turned OFF or damaged, or non more supplied for any reasons.
GENERAL TECHNICAL DATA			
Power supply input voltage	26...28.5 Vdc	12...15 Vdc	
Power supply rated current	≥ 3 A	≥ 3 A	
Load rated voltage	26...28 Vdc	10...15 Vdc	
Max load current	15 A	15 A	
Charging current	selectable 2 A or 4 A	selectable 2 A or 4 A	
Battery disconnection voltage	≤ 18 Vdc ±0.5V	≤ 9.2 Vdc ±0.5V	
IV/OUT voltage drop	0.4 V		
Battery protection fuse	T 15 A 42 V blade type		
Protections	Reverse polarity, short circuit, battery overload, battery deep discharge		
Alarm signals	Power supply OK: Battery OK Battery LOW Load OK Battery reverse polarity	SPDT 24 V / 1 A green LED red LED yellow LED green LED -10...+50°C	
Operating temperature range	IEC 664-1, DIN VDE II / 2		
EMC Standards	IP 20 IEC 529, EN60529		
Overvoltage category/Pollution degree	2.5 mm ² pluggable screw type		
Protection degree	aluminium		
Connection terminal	300 g (10.58 oz)		
Housing material	vertical on rail, adjacent		
Approx. weight			
Mounting information			
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	—		



Example 1:
XCSF120C + XCSUPS1 + battery



Example 2:
XCSF120C + XCSUPS1 + XCSBP30Y