

DESCRIPTION

The UCS-59 module is a combined mains adaptor and battery charger to be used in systems requiring battery back-up. In case of mains drop-out the battery will maintain the supply of the I/O modules.
The module is designed to be used in connection with a UCS-53 System Power Supply module and an external lead acid 12V battery.

The module contains a SMPS and provides alarm signals for mains drop-out and low battery voltage. It automatically switches off the output to avoid over-discharging the battery.

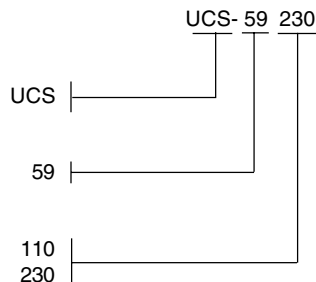
VERSIONS/ORDERING CODES

Type

Charger unit/
power supply module

Output
12V DC/22W

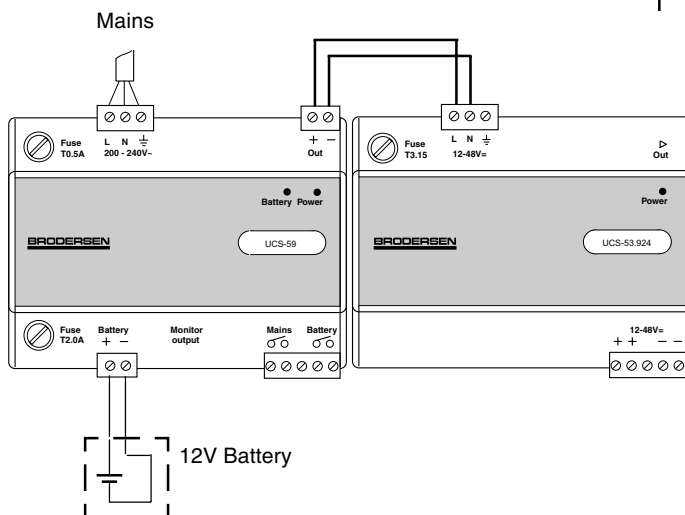
Supply voltage
110V AC
230V AC



NOTES/REMARKS

- 1) Hysteresis: Approx. 0.2V.
- 2) Mains power must be supplied to re-establish operation.

WIRING DIAGRAM



TECHNICAL DATA

Mains voltage:	100 - 120V AC (90 - 132V) 200 - 240V AC (180 - 265V)
Mains frequency:	40 - 60Hz
Power consumption:	40VA
Fuses:	
Mains: 110V:	T1.0A
230V:	T0.5A
Battery:	T2.0A
Outputs:	
DC:	12V nominal (10.5-15V), max. 22W
Charger/battery:	Charging current max. 0.5A DC
Battery	
Type:	12V Lead acid type (Varta CF12-12 or equivalent)
Capacity:	12Ah (larger capacity types may be used accepting prolonged charge period)
Recharge time:	Max. 24 hours (12 Ah)
Alarm threshold:	11.2V ± 2%, note 1
Cut-off threshold:	10.8V ± 2%, note 2
Back-up time:	
Minimum island:	Typ. 20 hours (200mA).
Maximum island:	Typ. 5 hours (1A).
Indicators:	Mains (green) Battery (green): $V_{BATT} > 11.2V$
Relay outputs:	SPST -NO max. 30V/0.5A (contacts are closed during normal operation).
Ambient temperature:	
Charging:	5° to 35° C
Operation:	-10° to 55° C
Isolation:	IEC class I, 4kV AC SAFETY EARTH REQUIRED
EMC/EMI:	EN50081 - 1 EN50082 - 2