

TBOX MS-PS230

Version 3.07





TBOX MS-PS230

- Power Supplies 230 Volts AC
- 15 W



- No redundancy. Working with battery: 12/24V UPS only - With Redundancy. Working with battery: 12/24V UPS only - With Redundancy. Working with backup battery: 24V UPS

- CRU-03 - Industrial

AC 85..265 VAC (47..440 Hz)

Maximum: 20 W

Maximum: 50 W

Maximum: 15 W

Maximum: 13.8 V

to the Battery (+12V)

Current: max. 120 mA +24VDC when mains is present

Ground and OV of Battery

Typical: 90 mA

Minimum: 60% at 2 A

Constant current / limited voltage

Backup power supply to another rack MS:

+24VDC when mains or battery is active.

+24VDC when mains is present otherwise +8V to +13.8V. Current: max. 625mA (minus current used by the rack)

Screw connector (3 x 7.62mm)

Wire range: 0.14 - 2.5 mm² (or max. 12 AWG)

DC 90..375 VDC

Technical Specifications

MS-PS230V	Revision	
	C-01, C-02, C-03 CR-03 CRU-03 IRU-03	
	Input	
+BAT Q	Voltage input:	
Main	Connector	
	Power	
Er RTU	Input Power at I out max.	-
	Input Power in overload or short-circuit	
	Efficiency	
265 VAC or	Output Power	
	Output	
	Battery charger:	- M - Volt - Curr
	Output connections	+ 12/24
cse-semaphore.com		+24 (
		+2
	Output current on the Bus (Vcc	:=3.3V)
	Total current used by all secondary output	

Total current used by all secondary outputs: battery charger, Bus, 24 V output, UPS outputs: (Vp=24 V)

Connector

Screw connector (5 x 5.08mm) Wire range: 0.14 - 2.5 mm² (or max. 12 AWG)

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- Mode

- Voltage

- Current

12/24 UPS

+24 UPS

+24 V

Gnd

3 A

Max. 0.625 A

+BAT



Test	Automatic test of the access of the card by the CPU (see LED 'CS' below)
EMC protection	
Overload and short-circuit	Maximum 1 second every minute Above this time, risk of permanent damage (output line is opened)
FUSE primary voltage	Soldered Fuse of 1.25 A. Not replaceable by user.
FUSE battery	Standard Glass Fuse of 2A fast (5x20). Replaceable by user.
Isolation	
nput between Earth and secondary	Isolation reinforced according to IEC60950 standard. 3000 Vrms during 1 minute
LED	
Main	Input Voltage present
CS	Card Selection: card corresponds to a card declared in TWinSoft.
ER	Error: card type does not correspond to the one declared in TWinSoft.
Input	
Active Power Supply	Digital input = 1 when power supply active (used in redundancy)
Power Fail	Digital input = 1 when 'main' power breaks down
Temperature	See above
Environment	
Temperature storage	-40°C to 85°C
Temperature working (ambient)	Industrial Temperature: -40°C to 70°C
Humidity	15 to 95 % without condensation
Altitude	Max. 4000 m
Dimensions	
Without connector	Height x Depth x Width: 150 x 83 x 29 mm
Weight (w/o connector)	350 g
Approvals	

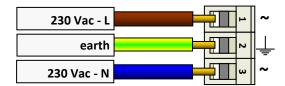
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Technical specifications may change before prior notice

Cabling Schematic

Cabling – Power Supply 230 VAC

Connector: POWER INPUT Screw connector (3 x 7.68 mm)



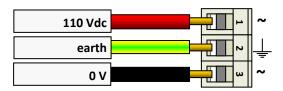
Cabling – Power Supply 110 VAC

Connector: POWER INPUT Screw connector (3 x 7.68 mm)

110 Vac - L	~
earth	Ļ
110 Vac - N	~

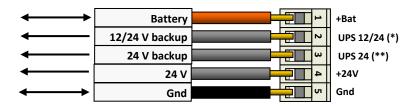
Cabling – Power Supply 110 VDC

Connector: POWER INPUT Screw connector (3 x 7.68 mm)



Cabling – Battery

Connector: POWER OUPUT Screw connector (5 x 5.08 mm)



(*): 12V when battery active; 24 V when mains active

(**): 24V when battery or mains active

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