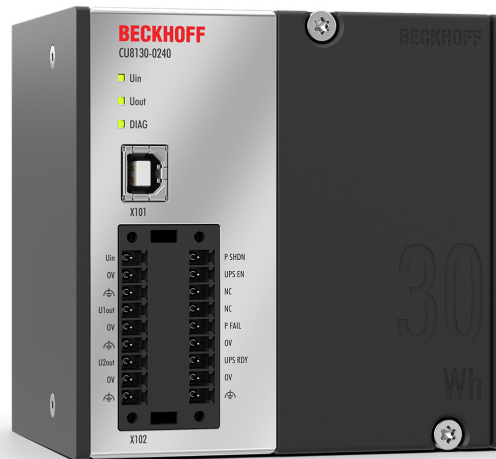




CU8130-0240 | UPS component, battery-backed



i Product status: regular delivery

CU8130-0240 is a battery-backed, uninterruptible power supply (UPS) providing up to 30 Wh with a maximum output power of 220 W.

If the external 24 V DC input voltage is lost, the UPS takes over the supply of the devices connected to it thanks to its regulated and buffered 24 V DC output voltage.

The CU81xx UPS series is suitable for all Beckhoff components, particularly Industrial PCs, Embedded PCs, Panels, and Panel PCs.

The main features of this UPS are:

- battery module based on NiMH cells
- battery module as spare part easily exchangeable during service, UPS electronics remain mounted and are reused
- UPS can be mounted on a DIN rail or at the rear panel of the control cabinet
- connection option for a main device (e.g. Industrial PC) and a secondary device (e.g. Control Panel)
- short-circuit protected outputs
- automatic switch-off based on time or residual energy control to protect the energy module
- automatic restart when power is restored (autonomous start)
- protocol-based communication with Industrial PC, optionally via OCT (One Cable Technology) or USB
- digital signals for communication with non-protocol-capable end devices
- parameterization and diagnostics via Beckhoff UPS software on various operating systems
- TwinCAT PLC function blocks for querying the UPS operation

The three diagnostic LEDs show the status of the input voltage, the output voltage, and the state of charge and indicate possible error states.

A special feature of the Beckhoff CU81xx devices is OCT (One Cable Technology) as communication technology between UPS and Industrial PC. This means that the two connecting lines (+24 V, 0 V) between the Industrial PC and the UPS are used not only to supply the Industrial PC, but also for bidirectional, modulated data transmission. If both sides are OCT-capable, no further connection, e.g., via USB, is required. This simplifies cabling and also allows longer connection distances compared to USB.

All UPS devices of the CU81xx series have permanent wiring via two 9-pin plugs, so that the wiring does not have to be disconnected during service.

Note: Please refer to the product documentation for the retention times that can be achieved with the UPS and important information on installation and safe operation of the devices.

Product information

Technical data

Technical data	CU8130-0240
Type	battery-backed uninterruptible power supply (UPS), 220 W
Housing	metal housing for mounting on norm rail TS35x15 2.3
Storage technology	NiMh (battery)
Capacity	30 Wh
Interfaces	USB, USB cable not included in the scope of supply Information: The UPS with UPS OCT via 24 V DC power supply module is expected to be available from Q3 2024.
Diagnostics LED	1 x U _{IN} , 1 x U _{OUT} , 1 x DIAG
Connection	2 x 9-pin plug, push-in
Power supply	24 V DC (-15%/+20%)
Output voltage	24 V DC (min. 23 V DC)
Power consumption	max. 240 W
Power output	max. 220 W
Power consumption during charging (without load)	1.04 A
Output current	max. 9 A
Fuse (internal, input)	electronic, 10 A
Fuse (internal, output)	electronic, 10 A
Power loss during charging	max. 1.45 W
Power loss mains operation, UPS charged	max. 8.8 W
Power loss UPS operation, UPS discharges	max. 22 W
Dimensions (W x H x D)	100 mm x 100 mm x 90 mm
Weight	approx. 1100 g

Operating temperature	-10...+50°C
Relative humidity	95%, no condensation
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4
Protection rating	IP20
Approvals/markings	CE, UL

Accessories

Accessories	
C9900-M675	Mounting plate made of black anodized aluminum for mounting the UPS on the control cabinet wall, suitable for CU8110-0120, CU8130-0120 and CU8130-0240
C9900-U030	spare battery module, 30 Wh, suitable for CU8130-0240
C9900-P950	Spare connector for the power supply of the CU81xx UPS series. Two 9-pin connectors with push-in connection for cables with a cross-section of 0.14 mm ² to 1.5 mm ² or AWG26 to AWG16.
C9900-K552	connecting cable USB 2.0 A-B, 3 m
C9900-K553	connecting cable USB 2.0 A-B, 5 m
C9900-K554	connecting cable USB 2.0 A-B, 1 m
C9900-K900	Power cable, shielded, PVC, 1 x 2 x AWG18, fixed installation, black, open end, with ferrules, shield as pigtail – open end, with ferrules, shield as pigtail, 0.50 m
C9900-K901	Power cable, shielded, PVC, 1 x 2 x AWG18, fixed installation, black, open end, with ferrules, shield as pigtail – open end, with ferrules, shield as pigtail, 1.00 m
C9900-K902	Power cable, shielded, PVC, 1 x 2 x AWG18, fixed installation, black, open end, with ferrules, shield as pigtail – open end, with ferrules, shield as pigtail, 2.00 m
C9900-K903	Power cable, shielded, PVC, 1 x 2 x AWG18, fixed installation, black, open end, with ferrules, shield as pigtail – open end, with ferrules, shield as pigtail, 5.00 m
C9900-K904	Power cable, shielded, PVC, 1 x 2 x AWG18, fixed installation, black, open end, with ferrules, shield as pigtail – open end, with ferrules, shield as pigtail, 10.00 m