

# TRIO-UPS-2G/1AC/24DC/20 - Uninterruptible power supply



1105556

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TRIO UPS - UPS with integrated power supply, USB (Modbus/RTU), DIN rail mounting, Push-in connection, input: 1-phase, output: 24 V DC / 20 A

## Product description

Supply DC loads reliably and save space with the TRIO uninterruptible power supplies. An input grid is no longer necessary for startup. Connected industrial PCs can be shut down easily via the integrated USB interface.

## Your advantages

- Space saving: Combination of UPS module and power supply in the same housing
- Long buffer times, thanks to large selection of VRLA energy storage systems
- USB interface for connection to higher-level controllers such as industrial PCs
- Startup from the energy storage system possible, even without mains input
- Universal range of possible applications, thanks to a comprehensive package of approvals and an extended temperature range
- Easy installation, thanks to push-in connection technology

## Commercial data

Item number	1105556
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CMU
Product key	CMUO13
GTIN	4055626988900
Weight per piece (including packing)	2,003.96 g
Weight per piece (excluding packing)	1,697 g
Customs tariff number	85044095
Country of origin	CN

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## Technical data

### Input data

Input voltage range	100 V AC ... 240 V AC -15 % ... +10 %
Voltage type of supply voltage	AC
Inrush current	< 10 A
Inrush current integral ( $I^2t$ )	< 0.4 A <sup>2</sup> s
Frequency range ( $f_N$ )	50 Hz ... 60 Hz (±10 %)
Mains buffering time	≥ 20 ms (120 V AC)
Switch-on time	typ. 200 ms
Typical current consumption	6.4 A (100 V AC)
Input fuse	10 A (slow-blow, internal)

### Signal Bat.-Start

Connection labeling	3.6
Signalization designation	Bat.-Start
Low signal	Connection to SGnd with < 2.7 kΩ
High signal	Open (> 200 kΩ between Bat.-Start and SGnd)

### Signal Remote

Connection labeling	3.5
Signalization designation	Remote
Low signal	Connection to SGnd with < 2.7 kΩ
High signal	Open (> 35 kΩ between Remote and SGnd)

### Output data

Efficiency	typ. 88 % (100 V AC)
	typ. 92 % (240 V AC)
	typ. (Battery operation)
Derating	> 60 °C (2.5%/K of P <sub>Out</sub> nom.)
Crest factor	1.57 (120 V AC)
	1.58 (230 V AC)
Switch-over time	< 3 ms
UPS connection in parallel	yes, with diode module uncoupled
UPS connection in series	no
Energy storage device connection in parallel	yes
Feedback voltage resistance	≤ 35 V DC
Protection against overvoltage at the output (OVP)	< 30 V DC
Residual ripple	< 20 mV
Control deviation	< 0.4 % (change in load, static 10 % ... 90 %)
	< 2.9 % (Dynamic load change 10 % ... 90 %, 10 Hz)
	< 0.1 % (change in input voltage ±10 %)
Rise time	< 34 ms
Permissible backup fuse	B16

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## Mains operation

Output voltage	24 V DC
Output voltage range	24 V DC ... 28 V DC (> 24 V constant capacity)
Output current $I_N$	20 A
Dynamic Boost ( $I_{Dyn.Boost}$ )	30 A
Maximum no-load power dissipation	< 4 W (230 V AC)
Power loss nominal load max.	< 50 W (230 V AC)

## Battery operation

Output voltage	$U_{BAT} - 0.1$ V DC
Output voltage range	18 V DC ... 30 V DC
Output current $I_N$	20 A

## Signal Alarm

Connection labeling	3.2
Signalization designation	Alarm
Type of signaling	LED red
Switching output	Transistor output, active
Output voltage	24 V DC
Continuous load current	20 mA
LED status indicator	red

## Signal Battery mode

Connection labeling	3.3
Signalization designation	Battery mode
Type of signaling	Yellow LED
Switching output	Transistor output, active
Output voltage	24 V DC
Continuous load current	20 mA
LED status indicator	yellow

## Signal DC OK

Connection labeling	3.1
Signalization designation	DC OK
Type of signaling	Green LED
Switching output	Transistor output, active
Output voltage	24 V DC
Continuous load current	20 mA
LED status indicator	green

## Signal Ready

Connection labeling	3.4
Signalization designation	Ready
Switching output	Transistor output, active
Output voltage	24 V DC
Continuous load current	20 mA