

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 energy storage 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	C17
Product key	CMUO13
GTIN	4055626988900
Weight per piece (including packing)	2,003.96 g
Weight per piece (excluding packing)	1,688 g
Customs tariff number	85044083
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 ² t)	$< 0.4 \text{ A}^2 \text{s}$
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	BatStart
Low signal	Connection to SGnd with < 2.7 $k\Omega$
High signal	Open (> 200 kΩ between BatStart and SGnd)

Signal Remote

Connection labeling	3.5
Signalization designation	Remote
Low signal	Connection to SGnd with < 2.7 $k\Omega$
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 _{Out} 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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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)
	,
attery operation	
Output voltage	U _{BAT} -0.1 V DC
Output voltage range	18 V DC 30 V DC
Output current I _N	20 A
Dynamic Boost (I _{Dyn.Boost})	30 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
Discol Datter and	
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
LED Status indicator	yenew
ignal 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



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Continuous load current	20 mA
rgy storage	
Nominal voltage U _N	24 V DC
End-of-charge voltage	max. 30 V DC
Charging current (Configurable)	0.2 A 3 A (-25 °C 40 °C)
Charging current (Reduced)	3 A 0 A (40 °C 65 °C)
Charging current (Preset)	2.1 A (-25 °C 40 °C)
Charging current ()	3 A
Nominal capacity range	4 Ah 40 Ah
Battery technology	VRLA-AGM
Charge characteristic curve	IU ₀ U
rfaces	
Interface	USB (Modbus/RTU)
Number of interfaces	1
Connection method	MINI-USB Type B
Locking	Screw
ctrical properties	
Number of phases	1.00
duct properties	
Product type	DC UPS
Product family	TRIO UPS
MTBF (IEC 61709, SN 29500)	958219 h (25 °C)
,	576370 h (40 °C)
	265724 h (60 °C)
sulation characteristics	
Protection class	I
Degree of pollution	2
ensions	
em dimensions	
Width	88 mm
Height	130 mm
Depth	160 mm
em dimensions with alternative mounting	
Width	160 mm
Height	130 mm
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Installation distance right/left	0 mm / 0 mm
Installation distance top/bottom	50 mm / 50 mm
Mounting	
Modriting	
Mounting type	DIN rail mounting
Assembly instructions	alignable: horizontally 0 mm, vertically 50 mm
Mounting position	horizontal DIN rail NS 35, EN 60715
Material specifications	
Flammability rating according to UL 94 (housing / terminal blocks)	V0
Hood version	PC

Aluminum

Environmental and real-life conditions

Ambient conditions

Side element version

Degree of protection	IP20
Ambient temperature (operation)	-25 °C 70 °C (> 60 °C Derating: 2,5 %/K)
Ambient temperature (storage/transport)	-40 °C 85 °C
Ambient temperature (start-up type tested)	-40 °C
Maximum altitude	≤ 4000 m (> 2000 m, observe derating)
Climatic class	3K3 (in acc. with EN 60721)
Max. permissible relative humidity (operation)	≤ 95 % (At +25°C, non-condensing)
Shock	30g, 18 ms in accordance with IEC 60068-2-27
Vibration (operation)	< 12 13.2 Hz, amplitude ±1 mm, 13.2 100 Hz, 0.7g in accordance with IEC 60068-2-6

Standards and regulations

Low-voltage power supplies, DC output

Standard designation

EN 61010-1	II
Safety for measurement, control, and laboratory equipment	
Standard designation	Safety for equipment for measurement, control, and laboratory use
Standards/specifications	IEC 61010-1
Protective extra-low voltage	
Standard designation	Protective extra-low voltage
Standards/specifications	IEC 61010 (SELV) / (PELV)
Safe isolation	
Standard designation	Safe isolation
Standards/specifications	DIN VDE 0100-410

Low-voltage power supplies, DC output



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L 61010
sted ANSI/ISA-12.12.01 Class I, Division 2, Groups A
ce with Low Voltage Directive 2014/35/EC
3-3
5-4
5-1
5-2
accordance with EN 61000-6-2 (industrial)
ce with EMC Directive 2014/30/EU
5-3
3-3
3-2
3-3
-2
Level 3)
evel 3)
l-3
S GHz
6 GHz
-4
4



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Output	2 kV
Signal	2 kV
Surge voltage load (surge)	
Standards/regulations	EN 61000-4-5
Input	2 kV (Test Level 4 - symmetrical)
	4 kV (Test Level 4 - asymmetrical)
Output	1 kV (Test Level 3 - symmetrical)
	2 kV (Test Level 3 - asymmetrical)
Signal	1 kV (Test Level 2 - asymmetrical)
Conducted interference	
Standards/regulations	EN 61000-4-6
Conducted interference	
Frequency range	0.15 MHz 80 MHz
Voltage	10 V



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Drawings

Schematic diagram



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Approvals

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cULus Listed

Approval ID: FILE E 123528



cULus Listed

Approval ID: FILE E 199827



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Classifications

ECLASS

ECLASS-11.0	27040705
ECLASS-12.0	27040705
ECLASS-13.0	27040705

ETIM

ETIM 8	0	EC000382



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Environmental product compliance

REACh SVHC Lead 7439-92-1



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Accessories

UPS-BAT/PB/24DC/4AH - Energy storage

1274117

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Energy storage, VRLA-AGM, 24 V DC, 4 Ah, automatic detection and communication with QUINT UPS-IQ

UPS-BAT/PB/24DC/7AH - Energy storage

1274118

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Energy storage, VRLA-AGM, 24 V DC, 7 Ah, automatic detection and communication with QUINT UPS-IQ



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UPS-BAT/PB/24DC/12AH - Energy storage

1274119

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Energy storage, VRLA-AGM, 24 V DC, 12 Ah, automatic detection and communication with QUINT UPS-IQ

UPS-BAT/PB/24DC/20AH - Energy storage

1348516

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Energy storage, VRLA-AGM, 24 V DC, 20 Ah, automatic detection and communication with QUINT UPS-IQ



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UPS-BAT/PB/24DC/40AH - Energy storage

1354641

https://www.phoenixcontact.com/us/products/1354641



Energy storage, VRLA-AGM, 24 V DC, 40 Ah, automatic detection and communication with QUINT UPS-IQ

UPS-BAT/VRLA-WTR/24DC/13AH - Energy storage

2320416

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Energy storage device, lead AGM, VRLA technology, 24 V DC, 13 Ah, tool-free battery replacement, automatic detection, and communication with QUINT UPS-IQ



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UPS-BAT/VRLA-WTR/24DC/26AH - Energy storage

2320429

https://www.phoenixcontact.com/us/products/2320429



Energy storage device, lead AGM, VRLA technology, 24 V DC, 26 Ah, tool-free battery replacement, automatic detection, and communication with QUINT UPS-IQ

MINI-SCREW-USB-DATACABLE - Data cable

2908217

https://www.phoenixcontact.com/us/products/2908217



Used for communication between an industrial PC and Phoenix Contact devices with USB-Mini-B connection.



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UWA 130 - Mounting adapter

2901664

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2-piece universal wall adapter for securely mounting the device in the event of strong vibrations. The profiles that are screwed onto the side of the device are screwed directly onto the mounting surface. The universal wall adapter is attached on the left/right.

UWA 182/52 - Mounting adapter

2938235

https://www.phoenixcontact.com/us/products/2938235



Universal wall adapter for securely mounting the device in the event of strong vibrations. The device is screwed directly onto the mounting surface. The universal wall adapter is attached on the top/bottom.



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POWER MANAGEMENT SUITE - Configuration software

1252232

https://www.phoenixcontact.com/us/products/1252232



Configuration and management software

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