

Uninterruptible power supply - TRIO-UPS-2G/1AC/1AC/120V/750VA - 2905908

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1AC/1AC/750 VA uninterruptible energy supply with integrated energy storage, lead AGM, VRLA technology, 24 V DC, 3.4 Ah for 120 V AC applications.

Product Description

UPS modules with integrated energy storage are particularly space saving: UPS module and energy storage are combined in one housing. It's just a case of connecting a power supply upstream.
The TRIO AC-UPS ensures seamless transition to battery operation thanks to the pure sine curve. Connected industrial PCs can be shut down safely via the integrated USB interface.

Why buy this product

- ✓ Smooth transition, thanks to the pure sine curve: the sine generated in battery operation is synchronous with the mains previously used for supply
- ✓ Space saving: UPS module and energy storage combined in one housing
- ✓ Long buffer times with integrated VRLA energy storage, can be extended with additional energy storage
- ✓ USB interface for connection to higher-level controllers such as industrial PCs
- ✓ Startup from energy storage possible, even without mains input



Key Commercial Data

Packing unit	1 STK
GTIN	
GTIN	4055626007397
Weight per Piece (excluding packing)	6,120.000 g
Custom tariff number	85371091
Country of origin	Germany

Technical data

Dimensions

Uninterruptible power supply - TRIO-UPS-2G/1AC/1AC/120V/750VA - 2905908

Technical data

Dimensions

Width	210 mm
Height	170 mm
Depth	136 mm

Ambient conditions

Ambient temperature (operation)	0 °C ... 40 °C
Ambient temperature (storage/transport)	-15 °C ... 40 °C (with charged energy storage device)
Max. permissible relative humidity (operation)	≤ 95 % (25°C, non-condensing)
Maximum altitude	≤ 3000 mm (> 2000 m, observe derating)
Vibration (operation)	5 Hz ... 100 Hz, 0.7g (EN 60068-2-6)
Shock	20g in all directions (EN 60068-2-27)
	30g in each space direction with UWA 130
Degree of pollution	2
Climatic class	3K3 (in acc. with EN 60721)

Input data

Nominal input voltage	120 V AC
Input voltage range	96 V AC ... 138 V AC
Frequency range	55 Hz ... 65 Hz
Current consumption	6 A
Permissible backup fuse	B10 B16 Listed breaker

Connection data, input

Connection method	Push-in connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	4 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Stripping length	10 mm

Output data

Apparent power	750 VA
Rated Power (Real Power)	600 W
Power factor (cos phi)	0.8
Crest factor	2.8
Switch-over time	< 10 ms

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Technical data

Output data

Classification according to IEC 62040-3	VFD-SS-311
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Output data (mains operation)

Nominal output voltage (U_N)	120 V AC
Nominal output current (I_N)	6 A (at 750 VA)

Output data (battery operation)

Nominal output voltage (U_N)	120 V AC
Nominal output current (I_N)	6 A (at 750 VA)
Form of output voltage	Pure sine

Connection data, output

Connection method	Push-in connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	4 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Stripping length	10 mm

General data

Efficiency	> 95 % (with charged energy storage device)
MTBF (IEC 61709, SN 29500)	> 206000 h (40°C)
Degree of protection	IP20
Protection class	I
Type of housing	DX51D+AZ (steel sheet / Galvalume)
Hood version	PC + ABS
Input fuse	10 A 400 V gRL
Weight	5.7 kg

Energy storage

Battery technology	Lead rechargeable battery module
Battery type	2x Panasonic UP-VW1220P1
Capacity	3.4 Ah
Battery fuse	40 A, 32 V
Charging time	7 h
Service life	6 Years ... 9 Years (20 °C)
Latest startup	6 Months (0 °C ... 20 °C)

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Technical data

Energy storage

Buffer period	20 min. (100 W)
	4 min. (300 W)
	1 min. (600 W)
Can be extended with external battery	1x 24 V 3.4 Ah

Connection data for the external battery

Connection method	Push-in connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	10 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	6 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	8
Stripping length	15 mm

Status and diagnostics indicator / signal outputs - Alarm

Switching output	Transistor output, active
Output voltage	24 V (SELV)
Continuous load current	≤ 20 mA
Status display	LED red

Status and diagnostics indicator / signal outputs - Battery

Mode

Switching output	Transistor output, active
Output voltage	24 V (SELV)
Continuous load current	≤ 20 mA
Status display	Yellow LED

Status and diagnostics indicator / signal outputs - Ready

Switching output	Transistor output, active
Output voltage	24 V (SELV)
Continuous load current	≤ 20 mA

Status and diagnostics indicator / signal outputs - Battery

Charge

Status display	Yellow LED
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Status and diagnostics indicator / signal outputs - AC OK, P>Pn, Remote

Status display	Green LED
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Technical data

Status and diagnostics indicator /signal outputs - Service

Status display	LED red
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Connection data for signaling

Connection method	Push-in connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	1.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	1.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	16
Stripping length	8 mm

Remote control

Designation	Remote
Low signal	Connection to SGnd with < 2.7 kΩ
High signal	Open (> 35 kΩ between remote and SGnd)

Battery-operated start (bat. start)

Low signal	Connection to SGnd with < 2.7 kΩ
High signal	Open (> 200 kΩ between bat. start and SGnd)

Interfaces

Interface	MINI-USB type B
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Device combinations

UPS connection in parallel	no
UPS connection in series	no

Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise immunity	Noise immunity according to EN 62040-2-2006
Standards/regulations	EN 61000-4-2
Contact discharge	4 kV (Test Level 2)
Standards/regulations	EN 61000-4-3
Frequency range	80 MHz ... 1 GHz
Test field strength	10 V/m
Standards/regulations	EN 61000-4-4
Comments	Criterion B
Standards/regulations	EN 61000-4-5

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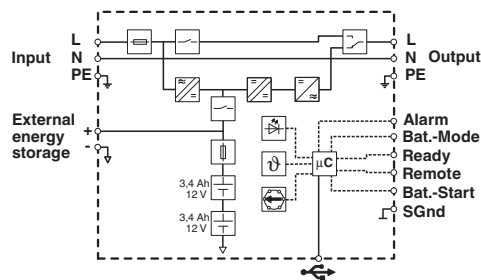
Technical data

Standards and Regulations

Signal	1 kV (Test Level 2 - asymmetrical)
Standards/regulations	EN 61000-4-6
Frequency range	0.15 MHz ... 80 MHz
Voltage	10 V
Conducted noise emission	EN 55016 EN 62040-02 (Class C2)
Standards/regulations	EN 61000-4-8
Low Voltage Directive	Conformance with Low Voltage Directive 2014/35/EC
UL approvals	UL/C-UL Recognized UL 1778
Shock	20g in all directions (EN 60068-2-27)
Vibration (operation)	5 Hz ... 100 Hz, 0.7g (EN 60068-2-6)

Drawings

Block diagram



Classifications

eCl@ss

eCl@ss 5.1	27040603
eCl@ss 6.0	27040603
eCl@ss 8.0	27040602
eCl@ss 9.0	27040705

ETIM

ETIM 5.0	EC000382
ETIM 6.0	EC000382

UNSPSC

UNSPSC 13.2	39121011
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Approvals

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Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

UL Recognized / cUL Recognized / cULus Recognized

Approval details

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 342453
cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 342453
EAC			RU C-DE.A*30.B.01082
cULus Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	

Accessories

Accessories

Assembly adapter

Assembly adapters - UWA 130 - 2901664



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

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Accessories

Battery unit

Energy storage - QUINT-BAT/24DC/ 3.4AH - 2866349



Energy storage device, lead AGM, VRLA technology, 24 V DC, 3.4 Ah. Connection via pin cable lug, 14 mm.

Uninterruptible power supply replacement battery - UPS-BAT-KIT-VRLA 2X12V/3,4AH - 2908233



Replacement battery for UPS-BAT/VRLA... energy storage

Data cable preassembled

Data cable - MINI-SCREW-USB-DATACABLE - 2908217



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

Fuse

Fuse - FUSE 10A/400V GRL - 2908358



Fuse, nominal current: 10 A, length: 31.8 mm, diameter: 6.35 mm

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Accessories

Fuse - FUSE 40A/32V ATOF - 2908357



Fuse, nominal current: 40 A, length: 19 mm, width: 5 mm, height: 18.8 mm