# 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

RoHS


## Key Commercial Data

| | |
|---|---|
| Packing unit | 1 STK |
| GTIN | 4 055626 007397 |
| GTIN | 4055626007397 |
| Weight per Piece (excluding packing) | 6,157.000 g |
| Custom tariff number | 85371091 |
| Country of origin | Germany |

## Technical data

### Dimensions

| | |
|---|---|
| Width | 210 mm |
| Height | 170 mm |

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## Technical data

### Dimensions

| | |
|---|---|
| Depth | 136 mm |

### Ambient conditions

| | |
|---|---|
| Degree of protection | IP20 |
| 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) |
| Climatic class | 3K3 (in acc. with EN 60721) |
| Degree of pollution | 2 |
| Installation height | ≤ 3000 mm (> 2000 m, observe derating) |

### Input data

| | |
|---|---|
| Nominal input voltage | 120 V AC |
| Input voltage range | 96 V AC ... 138 V AC |
| AC frequency range | 55 Hz ... 65 Hz |
| Input fuse | 10 A 400 V gRL |
| Permissible backup fuse | B10 B16 Listed breaker |
| Power factor (cos phi) | 0.8 |

### Output data

| | |
|---|---|
| Nominal output voltage | 120 V AC |
| Nominal output current ($I_N$) | 6 A |
| Connection in parallel | no |
| Connection in series | No |

### General

| | |
|---|---|
| Net weight | 5.7 kg |
| Memory medium | Lead rechargeable battery module |
| Protection class | I |
| MTBF (IEC 61709, SN 29500) | > 206000 h (40°C) |

### Connection data, input

| | |
|---|---|
| Connection method | Push-in connection |
| Conductor cross section solid min. | 0.2 mm² |
| Conductor cross section solid max. | 4 mm² |
| Conductor cross section flexible min. | 0.2 mm² |
| Conductor cross section flexible max. | 2.5 mm² |
| Conductor cross section AWG min. | 24 |
| Conductor cross section AWG max. | 12 |
| Stripping length | 10 mm |

### Connection data, output

| | |
|---|---|
| Connection method | Push-in connection |

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## Technical data

### Connection data, output

| | |
|---|---|
| Conductor cross section solid min. | 0.2 mm² |
| Conductor cross section solid max. | 4 mm² |
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| Conductor cross section AWG min. | 24 |
| Conductor cross section AWG max. | 12 |
| Stripping length | 10 mm |

### Signaling

| | |
|---|---|
| Signalization designation | Alarm |
| Output name | Transistor output, active |
| Output voltage | 24 V (SELV) |
| Continuous load current | ≤ 20 mA |
| Status display | LED |
| Conductor cross section solid min. | 0.2 mm² |
| Conductor cross section solid max. | 1.5 mm² |
| Conductor cross section flexible min. | 0.2 mm² |
| Conductor cross section flexible max. | 1.5 mm² |
| Conductor cross section AWG min. | 24 |
| Conductor cross section AWG max. | 16 |
| Signalization designation | Battery mode |
| Output name | Transistor output, active |
| Output voltage | 24 V (SELV) |
| Continuous load current | ≤ 20 mA |
| Status display | LED |
| Signalization designation | Ready |
| Output name | Transistor output, active |
| Output voltage | 24 V (SELV) |
| Continuous load current | ≤ 20 mA |
| Type of signaling | Green LED |
| Status display | LED |
| Conductor cross section solid min. | 0.2 mm² |
| Conductor cross section solid max. | 1.5 mm² |
| Conductor cross section flexible min. | 0.2 mm² |
| Conductor cross section flexible max. | 1.5 mm² |
| Conductor cross section AWG min. | 24 |
| Conductor cross section AWG max. | 16 |

### Charging process

| | |
|---|---|
| Charging time | 7 h |

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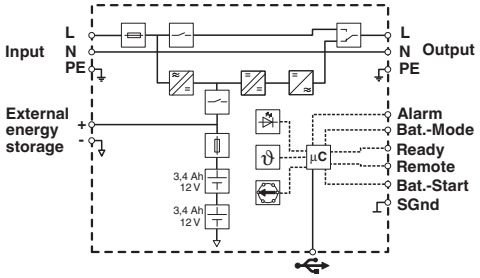
## Technical data

### 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 |
| Signal | 1 kV (Test Level 2 - asymmetrical) |
| Standards/regulations | EN 61000-4-6 |
| Frequency range | 0.15 MHz ... 80 MHz |
| Voltage | 10 V |
| 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




## Accessories

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Assembly adapter

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

## Accessories

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.

### 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.

### 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

Fuse - FUSE 40A/32V ATOF - 2908357

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