

Sinteso™ / Cerberus™ PRO

Power supply (70 W)

FP2015-A1



This power supply can be installed in fire control panels or in additional housing intended for this purpose. When it is used in additional housing, the power supply must be monitored by the fire control panel.

- Output power 70 W
- Short-circuit-proof
- Current limited
- Mains voltage monitored
- Batteries monitored
- Battery charging with temperature compensation
- Uninterruptible power supply in battery operation
- Supplies other consumers (complies with EN 54 and VdS)
- AC 230 V or AC 115 V

Properties

- The power supply (70 W) converts mains voltage to system voltage and charges the batteries.
- The DC 24 V system voltage is electrically isolated.
- For the supply of consumers in accordance with EN 54-4 and VdS.
- The output voltage is short-circuit-proof and battery charging is current-limited.
- Must not be connected in parallel.
- The battery charge voltage is regulated with temperature compensation.
- A jumper can be used to switch the mains voltage from AC 230 V to AC 115 V.

Monitoring of mains voltage and the batteries

- A failure of the AC 230 V supply voltage or a higher internal battery resistance are detected and an error message is generated.

Uninterruptible power supply

- If the mains voltage fails, the supply switches automatically from mains operation to battery operation.

Protecting the battery against total discharge

- When the final voltage is reached, the battery switches off automatically.

Use

Power supply FP2015-A1



The power supply (70 W) is for the following uses:

- As an optional power supply for the following fire terminals
 - Sinteso: FT2040
 - Cerberus™ PRO: FT724
- As an extension for FS20-/FS720 empty housing
 - Sinteso: FH2001-A1 housing (Eco), FH2002-A1 housing (Standard)
 - Cerberus™ PRO: FH7201-Z3 housing (Eco), FH7202-Z3 housing (Standard)

Housing (Eco) FH7201-Z3



- Empty housing (Eco), can be used for power supply (70 W)
- Dimensions without cover cap: W x H x D 430 x 398 x 80 mm
- Installable batteries: Max. 7 Ah 430 x 398 x 80 mm

Housing (Standard) FH7202-Z3



- Empty housing (Standard), can be used for power supply (70 W)
- Dimensions without cover cap: W x H x D 430 x 398 x 160 mm
- Installable batteries: Max. 12 Ah, together with power supply (70 W)

Housing (Eco) FH2001-A1



- Empty housing (Eco), can be used for power supply (70 W)
- Dimensions without cover cap: W x H x D 430 x 398 x 80 mm
- Installable batteries: Max. 7 Ah

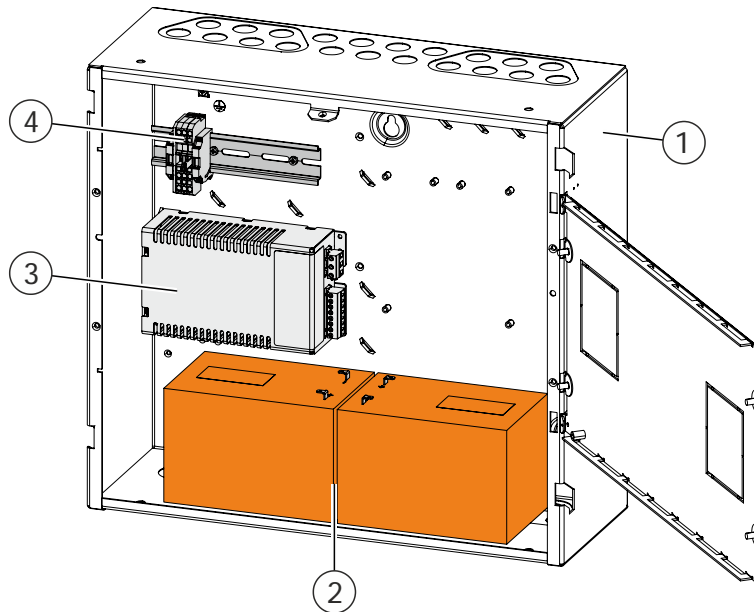
Housing (Standard) FH2002-A1



- Empty housing (Standard), can be used for power supply (70 W)
- Dimensions without cover cap: W x H x D 430 x 398 x 160 mm
- Installable batteries: Max. 12 Ah, together with power supply (70 W)

Type Overview

| Type | Designation | Order no. | Weight |
|-----------|------------------------------|----------------|----------|
| FP2015-A1 | Power supply (70 W) | S54400-B121-A1 | 0.576 kg |
| FA2003-A1 | Battery (12 V / 7 Ah / VdS) | A5Q00019353 | 2.450 kg |
| FA2004-A1 | Battery (12 V / 12 Ah / VDS) | A5Q00019354 | 3.930 kg |
| FA2005-A1 | Battery (12 V / 17 Ah / VDS) | A5Q00019677 | 5.640 kg |



Arranging the components, using the housing (Standard) as an example

| Components | | Designation | Notes |
|------------|----------------------------|------------------------|---------------------------------|
| 1 | Housing (Standard) | FH2002-A1 FH7202-Z3 | Incl. U-rail, 150 mm |
| 2 | Batteries | -- | 7...12 Ah, depending on housing |
| 3 | Power supply (70 W) | FP2015-A1 | Contained in FP120-Z1 |
| 4 | Mains connection terminals | -- | Contained in FP120-Z1 |

Product documentation

| Document ID | Title |
|-------------|-------------------------------------------------------|
| 008836 | FS20 Fire Detection System - System Description |
| 008837 | FS20 Fire detection system - Product Data |
| 008843 | FS20 Fire detection system - Planning |
| 008851 | FS20 Fire detection system - Mounting / Installation |
| A6V10210355 | FS720 Fire detection system - System Description |
| A6V10210362 | FS720 Fire detection system - Planning |
| A6V10210368 | FS720 Fire detection system - Product Data |
| A6V10210390 | FS720 Fire detection system - Mounting / Installation |
| A6V10411051 | Technical manual FP2015-A1 |

Related documents such as environmental declarations, CE declarations, etc., can be downloaded at the following Internet address:

<http://siemens.com/bt/download>

Disposal

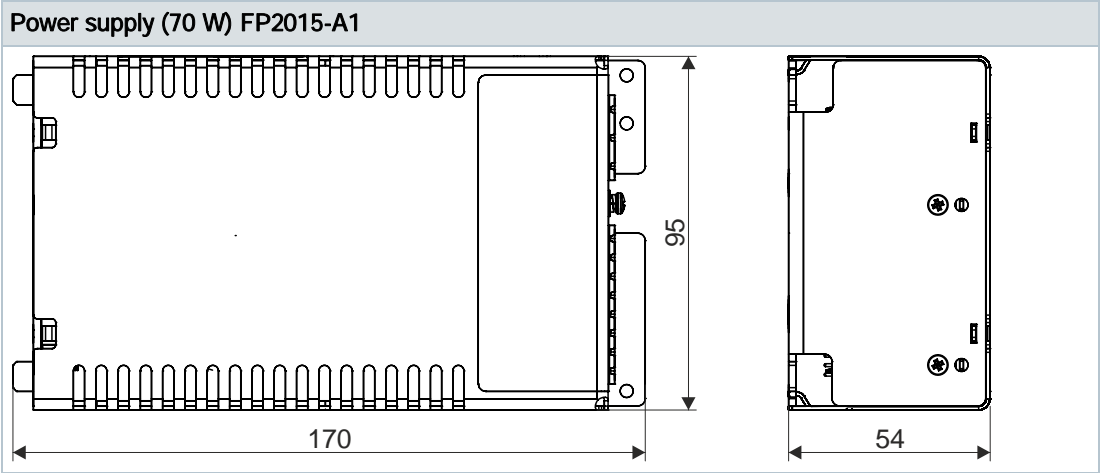


The device is considered an electronics device for disposal in terms of European Directive 2012/19/EU and may not be disposed of as domestic garbage.

- Dispose of the device through channels provided for this purpose.
- Comply with all local and currently applicable laws and regulations.

Technical data

| | | |
|----------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Mains supply | Voltage | AC 97...127 V, AC 196...253 V, 50 / 60 Hz |
| | Current | 0.5...1 A |
| | Power consumption | Max. 90 VA |
| System supply output | Designation | 'Usys' |
| | Voltage | DC 20.5...28.6 V, depending on charge and temperature |
| | Current: | |
| | • Maximum output current with battery charge ($I_{\max a}$) | 0.9 A |
| | • Maximum output current without battery charge ($I_{\max b}$) | 2.5 A |
| | • Minimum output current (I_{\min}) | 0.05 A |
| | Output power | 70 W |
| Ripple | Max. 5 % | |
| Battery supply output | Designation | 'Accu' |
| | Voltage | DC 20.5...28.6 V, depending on charge and temperature |
| | Charging current | Max. 1.6 A, the charging current is reduced at full load |
| | Connectable batteries | 2x 12 V / 7...17 Ah Battery types recommended by Siemens in acc. with planning document |
| | Battery internal resistance (R_{\max}) | Max. 1 Ω , batteries incl. line |
| | Batteries are monitored for | <ul style="list-style-type: none"> • Short-circuit • Open line • Presence |
| | Low discharge protection | Battery voltage DC 20.5 V...21.0 V |
| Mains fault monitoring signal | Designation | 'Mains' |
| | Active in event of | <ul style="list-style-type: none"> • No mains voltage Signaling within 10 s |
| | Design | Open collector |
| Battery fault monitoring signal | Designation | 'Battery' |
| | Active in event of | <ul style="list-style-type: none"> • Battery fault • Battery voltage <DC 21.0 V |
| | Design | Open collector |
| Connections | Mains supply, battery supply and monitoring signals | Plug-type connections |
| Mechanical data | Dimensions (W x H x D) | 95 x 170 x 54 mm |
| | Weight | 576 g |
| Approvals | VdS | G213083 |
| | LPCB | Pending |



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