



FP120-Z1

Cerberus™ FIT

Power supply kit A (70 W)



---

The power supply (70 W) FP120-Z1 converts the mains voltage to system voltage and charges the batteries.

The power supply has the following functions:

- Output power 70 W
- Separately fused 24 V outputs
- Inherently short-circuit-proof
- Current limiting
- Mains voltage monitoring
- Uninterruptible power supply
- Battery charging with temperature compensation
- Battery monitoring
- Supply to other devices (in accordance with EN 54-4 and VdS)
- Choice between AC 115 V or AC 230 V

### Function

- The 70 W power supply generates an isolated system voltage of DC 24 V.
- Two short-circuit-proof outputs are provided for external consumers.
- The output voltage is short-circuit-proof and battery charging is current-limited.
- Uninterruptible power supply: If the mains voltage fails, the supply switches automatically from mains operation to battery operation.
- The battery is protected against total discharge. When the final voltage is reached, the battery switches off automatically.
- The power supply monitors the mains voltage and the battery capacity. Faults such as the failure of the AC 230 V supply voltage or a higher internal battery resistance are detected and an error message is generated.
- The charge voltage for the battery is regulated according to the temperature.
- The device is equipped with a jumper for switching the mains voltage from AC 115 V to AC 230 V.

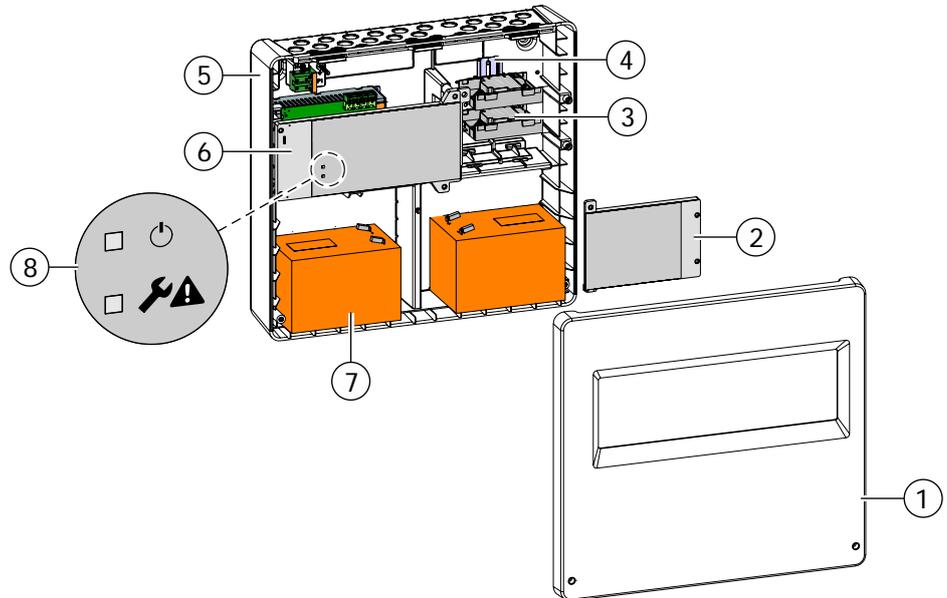
### Use

Stand-alone power supply for decentralized supply to external devices (DC 24 V). Integrated operating indicator and fault indicator and facility for forwarding the faults via potential-free contacts.

**FP120 is intended for use in the following configuration:**

- Installation of the various battery types from 7 Ah to 17 Ah
- Direct installation of a FDCIOxxx in the power supply kit
- Installation option for a TS35 U-rail for direct mounting of modules (e.g. FDCIOxxx and/or Z3B171)

**FP120**



- [1] Cover cap
- [2] Front panel
- [3] Installation space for I/O modules and relay modules
- [4] Installation option for support rail (TS35\_122)
- [5] Housing
- [6] Connection card
- [7] Battery
- [8] LED indicator

## Technical data

		<b>FP120-Z1</b>
Mains voltage		AC 98...127 V / AC 196...253 V
Power supply		70 W
Operating voltage		DC 19.2...28.6 V
Operating current		max. 2.5 A
Ripple		max. 5 %
Battery capacity		2 x 12 V, 7 Ah or 12 Ah or 17 Ah
Final voltage		DC 20.5...21 V
Battery monitoring		Yes
Mains supervision		Yes
Operation LED (green)		Yes
LED fault (yellow)		Yes
Separately fused outputs		2 → 24 V / 1 A or 1 → 24 V / 2 A
Integrated inputs/outputs		
– Relay output		
– Battery fault		max. DC 30 V / 1 A
– Mains voltage fault		max. DC 30 V / 1 A
Current		
– Max. nominal output current with battery charge ( $I_{\max a}$ )		0.9 A
– Max. nominal output current without battery charge ( $I_{\max a}$ )		2.5 A
– Min. output current ( $I_{\min a}$ )		0.05 A
– Battery resistance $R_{i\max}$		1.0 $\Omega$
Dimensions (W x H x D)		430 x 399 x 124 mm
Color		
– Housing		White, ~RAL 9010
Operating temperature		-5...+40 °C
Storage temperature		-20...+60 °C
Air humidity (no condensation permitted)		≤ 95 % rel.
Protection category (IEC 60529)		IP30
Approvals		
– VdS		G214130
– LPCB		Pending

15  0786	<b>FP120-Z1</b>	Siemens Switzerland Ltd, Gubelstrasse 22 CH-6301 Zug, Switzerland Technical data: see doc. <b>A6V10393194</b>
FP120 - Power Supply Equipment 24V/70W for use in fire detection and fire alarm systems installed in buildings		
305/2011/EU (CPR): EN 54-4 ; 2004/108/EC (EMC): EN 50130-4 / EN 61000-6-3 ; 2006/95/EC (LVD): EN 60950-1 ; 2011/65/EU (RoHS): EN 50581		
Declared performance and conformity can be seen in the Declaration of Performance and the EC Declaration of Conformity, which is obtainable via the Customer Support center: Tel. +49 89 9221-8000 or <a href="http://siemens.com/bt/download">http://siemens.com/bt/download</a>		
DoP No.: 0786-CPR-21414; DoC No.: CED-FP120		

## Details for ordering

---

Type	Art. no.	Designation	Weight
FP120-Z1	S4400-S122-A1	Power supply kit (70 W)	1.600 kg
TS35_122	BPZ:5644780001	U-rail TS35/7.5/122	0.041 kg
FA2003-A1	A5Q00019353	Battery (12 V, 7 Ah, VDS)	2.450 kg
FA2004-A1	A5Q00019354	Battery (12 V, 12 Ah, VDS)	3.930 kg
FA2005-A1	A5Q00019677	Battery (12 V, 17 Ah, VDS)	5.640 kg

Siemens Switzerland Ltd  
Building Technologies Division  
International Headquarters  
CPS Fire Safety  
Gubelstrasse 22  
CH-6301 Zug  
Tel. +41 41 724 24 24  
[www.siemens.com/buildingtechnologies](http://www.siemens.com/buildingtechnologies)

© Siemens Switzerland Ltd, 2014  
Technical specifications and availability subject to change without notice.