

## FP2015-A1 Power Supply (70 W)

Sinteso™  
Cerberus™ PRO



---

The power supply (70 W) FP2015-A1 converts the mains voltage to system voltage and charges the batteries.

The power supply has following features:

- Output power 70 W
- Short-circuit proof
- Current limit
- Mains voltage surveillance
- Uninterruptible power supply in battery operation
- Battery charging with temperature compensation
- Battery surveillance
- Supplying of other devices (complies with EN 54-4 and VdS)
- Selectable AC 115 V or 230 V

### Function

- Power Supply 70 W generates an isolated output system voltage DC 24 V.
- The output voltage has short-circuit protection and the battery charge is current limited.
- Battery back-up: if the main power source fails the power will be automatically switched over to a battery power source.
- The battery is deep discharge protected. The battery is automatically disconnected after the end-point voltage is reached.
- The power supply unit monitors the mains supply and the battery capacity. If an error occurs like a power supply AC 230 V interruption or a high internal resistance of the battery, a fault indication is generated.
- It provides a temperature dependent regulation of the battery charging voltage.
- It is equipped with a selection jumper to switch between AC 115 V or 230 V mains supply.

### Application

The power supply FP2015 is suited for the following applications:

- FP2015-A1 power supply for use in fire control panels.

Use as an expansion of the empty housings FC720 / FC2020:

- FH7201-Z3, FH7202-Z3 (Cerberus)
- FH2001-Z3, FH2002-A1 (Sinteso)

**Overview of the Power Supply variants based on FP2015**

---

**Stand-alone Power Supply**

**FP120-Z1**

with each one green + yellow LED



Stand alone Power supply  
 Incl. Power supply (70 W)  
 Incl. Relay output board  
 Fault AC 230V / Fault battery

Battery capacity max. 17 Ah

**Expansions (empty housings for various applications)**

**FH7201-Z3**

Housing (Eco)  
 430 x 398 x 80 mm



Possible to implement  
 with power supply (70 W)

Battery capacity max. 7 Ah

**FH7202-A1**

Housing (Standard)  
 430 x 398 x 160 mm



Possible to implement  
 with power supply (70 W)

Battery capacity max. 17 Ah

**FH2001-A1**

Housing (Eco)  
 430 x 398 x 80 mm



Possible to implement  
 with power supply (70 W)

Battery capacity max. 7 Ah

**FH2002-A1**

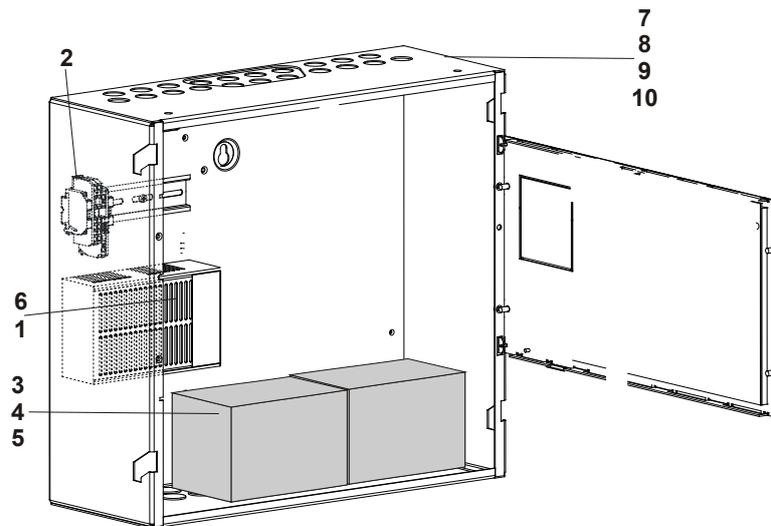
Housing (Standard)  
 430 x 398 x 160 mm



Possible to implement  
 with power supply (70 W)

Battery capacity max. 17 Ah

## Configuration in Cerberus PRO or Sinteso housings (Eco or Standard)



Equipment	Designation	Notes	
<b>1, 6</b>	Power Supply (70 W)	FP2015-A1	
<b>2</b>	U-rail	TS35_122	
	Battery (12 V, 7 Ah, VDS)	FA2003-A1	
<b>3, 4, 5</b>	Battery (12 V, 12 Ah, VDS)*	FA2004-A1	for emergency power supply
	Battery (12 V, 17 Ah, VDS)*	FA2005-A1	
<b>7</b>	Sinteso Housing (Eco)	FH2001-A1	
<b>8</b>	Sinteso Housing (Standard)	FH2002-A1	
<b>9</b>	Cerberus PRO Housing (Eco)	FH7201-A1	
<b>10</b>	Cerberus PRO Housing (Standard)	FH7202-A1	

\* Only with the standard housing

## Technical data

	<b>FC20 / FC720 Housing Eco or Standard</b>
Mains voltage	AC 97...127 V or AC 196...253 V
Power supply	70 W
Operating voltage	DC 21...28.6 V
Operating current	max. 2.5 A
Ripple	max. 0.5 %
Battery capacity	2 x 12 V, 7 Ah or 12 Ah or 17 Ah
End-point voltage	DC 20.5...21 V
Battery monitoring	Yes
Mains monitoring	Yes
Current	
– Max. nominal Output current during battery charging ( $I_{\max a}$ )	0.9 A
– Max. nominal Output current without battery charging ( $I_{\max b}$ )	2.5 A
– Mini. Output current ( $I_{\min a}$ )	0.05 A
– Battery resistance $R_{i\max}$	1.0 $\Omega$
Dimensions (W x H x D)	430 x 398 x 80 mm (Eco) 430 x 398 x 160 mm (Standard)
Color	
– Cerberus PRO Housing	grey, ~RAL 7035 / ~RAL-Design 000 50 00
– Sinteso Housing	grey, ~RAL 7035 / white, ~RAL 9010
Operating temperature	-5...+40 °C
Storage temperature	-20...+60 °C
Relative humidity	≤ 95% (no condensation)
Protection category (IEC 60529)	IP30
Approvals	
– VdS	G213083
– LPCB	pending

14  0786	<b>FP2015</b>	Siemens Switzerland Ltd; Gubelstrasse 22 CH-6301 Zug Technical data: see doc. <b>A6V10411051</b>
FP2015 - 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-21302; DoC No.: CED-FP2015		

## Details for ordering

Type	Part no	Designation	Weight
FP2015-A1	S54400-B121-A1	Power Supply (70 W)	1,300 kg
FH2001-A1	A5Q00016865	Housing (Eco), Sinteso	7,580 kg
FH2002-A1	A5Q00018931	Housing (Standard), Sinteso	7,500 kg
FH7201-Z3	S54400-B70-A1	Housing (Eco), Cerberus PRO	7,500 kg
FH7202-Z3	S54400-B72-A1	Housing (Standard), Cerberus PRO	7,500 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  
Infrastructure & Cities Sector  
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)

Document no. **A6V10367041\_c\_en\_--**  
Edition 06.2014

© 2014 Copyright by  
Siemens Switzerland Ltd  
Data and design subject to change without notice.  
Supply subject to availability.

Manual FS120  
Section 1