Power Cabinet BP-405

AutroSafe Interactive Fire Detection System, Release 4 Product Datasheet

Features

- Power Cabinet containing 5A/24V power supply and Power Board BSF-400 with 2x12V, 18Ah batteries (batteries not included)
- Power Board BSF-400, including
 - AutroFieldBus interface
 - 115VAC /230VAC input
 - 6 outputs 24VDC (max. 2A each)
 - 1 fault relay output
- Available space for 2x12V, 18Ah batteries
- Conforms to CE standards
- Designed to meet IEC 61508 SIL2 requirements, CEN, EN 54-2, EN 54-4 and EN 54-13 regulations, FM regulations (Factory Mutual) and the maritime SOLAS requirements (Safety Of Life At Sea)

Description/Application

The Power Cabinet BP-405 provides space for two 12V/18Ah batteries (not included).

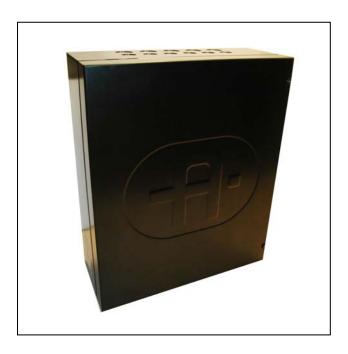
The maximum power available is 24V/5A.

NOTE:

Do not connect batteries in parallel in an attempt to obtain higher ampere hour (Ah) capacity.

If additional power is required in an installation, an additional cabinet BP-405 with 24V/5A power supply can be used.

The power supply and battery brackets are already mounted when the cabinet is delivered from the factory.



Dipswitch Settings

Dipswitch settings for dipswitch S6 on Power Board BSF-400.

Dip- switch	Name	Description
S6-1	Earth Fault	ON: Earth fault monitoring activated OFF: Earth fault monitoring deactivated
S6-2	Battery Relay	Must always be set to OFF. (Bypasses battery relay control and sets battery relay ON).
S6-3	AutroFieldBus	ON: AuttroFieldBus connected OFF: AutroFieldBus not connected
S6-4	Not used	NA
S6-5	Battery	ON: Battery connected OFF: Battery not connected
S6-6	Power Unit Type	ON: BPS-405 OFF: BPS-410

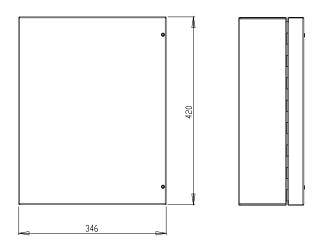


Technica	al specifications	S				
Dimensions (mm)			420 x 346 x 146			
Weight (kg)		9,7 kg (wi	9,7 kg (without batteries)			
Materials		Steel cabi	Steel cabinet			
Mounting		Surface o	r flush mo	ounting		
Protection of		IEC-529 /	IEC-529 / IP32			
Operating 7	Temperature	-15°C to +	-70°C ⁴			
Storage Te	mperature		-40°C to +70°C			
Current		230VAC 1	230VAC 1,6A			
Inrush curre	ent	< 35A in 1	< 35A in 10 ms			
Input volta	ige range					
115VAC ra	nge	230VAC 1	230VAC range			
94 – 132 V	AC	184 – 264	184 – 264 VAC			
	47	– 63 Hz				
Output						
Max load		Max load	Max load without battery			
3,5A		5 A				
Min battery	' size	Max batte	Max battery size			
7,2 Ah		18 Ah	18 Ah			
Accuracy ¹		•				
<170mV _{RMS}	3					
Efficiency						
>86%						
Voltage ou	ıt					
19-32V						
Overload p	orotection					
7,5A						
Shutdown o	o/p, re-power on to re	ecover				
Fuses						
Battery ²		Charger ²	Charger ²			
5A		5A				
Dipswitch,	S6					
Number	Description		Cor	ndition		
S6.1	Earth fault sense		ON/OFF			
S6.2	Battery relay OFF		=			
S6.3	AutroFieldBus ON/OFF		OFF			
S6.4	N/A					
S6.5	Battery present		ON			
S6.6	BPS-405, Meanwell Power Supply ON					
	Common data					
Fuses						
Name	Electronic fuse	Fuse	Туре	Special function		
A1	Yes, 7A	2A	Fast	141100011		
A2	Yes, 7A	2A	Fast			
B1	Yes, 7A	2A	Fast			
B2	Yes, 7A	2A	Fast			
C1	Yes, 7A	2A	Fast	3		
C2	Yes, 7A	2A	Fast	3		
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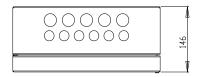
Technical specifications							
Cable parameters							
OUtput name	Cable siz	ze max.					
A1							
A2							
B1	Single thread 6 mm ² (10 AWG)						
B2							
C1		Multi thread 4 mm ² (12 AWG) Minimum thread 0,2 mm ² (24 AWG)					
C2	Minimum						
Battery							
Charger							
AutroFieldBus	Minimum	Cat 5					
Dipswitch S5, AutroFieldBus earth fault sense							
S5.1	S5.2		Function				
OFF	OFF		AFB earth fault OFF				
ON	ON		AFB earth fault ON				
BSF-400							
Current consumption 85mA							

Product Name	Description
BP-405	Power Cabinet

Dimensions (mm)



¹ The value is given in Volt peak to peak and this is converted to RMS.



AUTRONICA FIRE AND SECURITY AS

Head office, Trondheim, Norway Tel: +47 73 58 25 00, fax: +47 73 58 25 01, e-mail: info@autronicafire.no Oil and Gas division, Stavanger, Norway Tel: +47 51 84 09 00, fax: +47 51 84 09 99

Maritime division, Spikkestad, Norway Tel: +47 31 29 55 00, fax: +47 31 29 55 01

² Fuse must have high current breaking capacity.

³ This port turns OFF for 3 seconds during initialization of AutroSafe if the Power Board BSF-400 is connected through AutroFieldBus

AutroFieldBus.

Cooling is strongly recommended if the unit is placed in environments where the temperature during normal operation is likely to exceed +55°C (and up to +70°C) for long periods of time.