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)



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

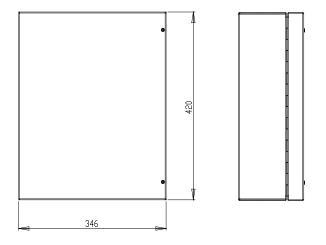


Technical so	Technical specifications						
Dimensions		420 x 346 x 146					
Weight (kg)	()				eries)		
Materials	9,7 kg (without batteries) Steel cabinet						
Mounting		Surface o	r flu	ısh mo	unting		
Protection c	lass	IEC-529 /					
Operating To		-25°C to +					
Storage Tem	perature	-40°C to +					
Current		230VAC 1	,6A				
Inrush curre	< 35A in 10 ms						
Input voltage range							
115VAC rang		230VAC ra	ang	е			
94 - 132 VA		184 – 264	۷Ā	С			
	47 –	· 63 Hz					
Output							
Max load		Max load	with	nout ba	attery		
3,5A		5 A					
Min battery s	size	Max batte	ry s	size			
7,2 Ah		18 Ah					
Accuracy ¹							
<170mV _{RMS}							
Efficiency							
>86%							
Voltage out							
19-32V							
Overload pro	otection						
7,5A							
	/p, re-power on to r	ecover					
Fuses							
Battery ²		Charger ²					
5A		5A					
Dipswitch, S	66						
	Description			Condition			
	Earth fault sense				N/OFF		
					OFF		
				ON/O	FF		
	N/A						
S6.5 I	Battery present			ON			
	BPS-405, Meanwell Supply	Power		ON			
	Common data						
Fuses	Floring to 6	T =	-		0		
	Electronic fuse	Fuse	IУ	pe	Special		
Name			Ī		function		
Name	Voc. 74	24	Fa	o t			
Name A1	Yes, 7A	2A	Fa				
Name A1 A2	Yes, 7A	2A	Fa	st			
Name A1 A2 B1	Yes, 7A Yes, 7A	2A 2A	Fa Fa	st st			
Name A1 A2 B1 B2	Yes, 7A Yes, 7A Yes, 7A	2A 2A 2A	Fa Fa	st st	3		
Name A1 A2 B1	Yes, 7A Yes, 7A	2A 2A	Fa Fa	st st st st	3		

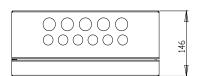
Technical specifications					
Cable parameters					
OUtput name	Cable si	Cable size max.			
A1					
A2					
B1	_				
B2	Single thread 6 mm ² (10 AWG)				
C1		Multi thread 4 mm ² (12 AWG)			
C2	Minimur	Minimum thread 0,2 mm ² (24 AWG)			
Battery					
Charger					
AutroFieldBus	Minimur	Minimum Cat 5			
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)



² Fuse must have high current breaking capacity.



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

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

AutroFieldBus.
4 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.