







Waterproof box with power supply

SYNAPS CS is an outdoor box equipped with a 56 V DC power supply allowing the integration of switches for communication and video protection applications. There are 2 models SYNAPS 56V 5Z P CS without backup and SYNAPS 56V 5F P CS with backup.

> Mechanical characteristics								
Cabinet	Dimensions L x H x D (mm)	Customer space available W x H x D (mm) - 2 rails Din		Weight (kg)	Materials	Protection class	Scx	Mounting
P Cabinet 	300 x 400* x 210	SYNAPS 56V 5Z P CS	140 x 160 x 175 140 x 160 x 175	5.0	Poly-carbonate	IP65 / IK10	0.132	Mast / Wall-mounted
		SYNAPS 56V 5F P CS	140 x 160 x 175 64 x 160 x 175	6.5				
* H with cable glands: + 35 mm								
> Connections								
- 3 (2+E) screw terminals on the surge protector (230 V AC power supply). - 2 output screw terminal blocks (56V).				- Allowable section 0.75...2.5 mm ² - Cable routing via 8 waterproof cable glands (PSG22).				
> Normative specifications								
EN IEC 62368-1 EN IEC 61000-6-1 / EN IEC 61000-6-2 / EN IEC 61000-6-3 / EN IEC 61000-6-4 EN IEC 61000-3-2 (class A) / EN 55032 (class B) / UN 38.3					   			
> Environmental specifications								
Temperature								
In storage				-20 to +45°C				
Operating				-10 to +50°C at 100% of nominal power in emergency and normal mode -5 to +50°C at 100% of nominal power in battery charging mode				
Hygrometry								
From 0 to 100% condensing								
Altitude								
Beyond 2,000 m, the maximum temperature is lowered by 5% every 1,000 m.								
Lifespan								
10 years at 25°C external ambient product, nominal mains voltage, 75% load.								
> Electrical characteristics								
Network Input								
AC mains voltage				175 to 265 V AC				
DC mains voltage				248 to 375 V DC				
Frequency				45 to 65 Hz				
Class				Class 1				
Current				Inrush current limited by CTN				
Neutral systems				TT, TN, IT				
Protection against				primary short circuit and differential mode shock waves				
Primary current @ 175 V AC				1.3 A				
Primary current @ 265 V AC				0.51 A				
Lightning arrester				Type 2 / 10 kA				
Protections								
Against primary overvoltages of atmospheric or industrial origin (10 kA lightning arrester).								
Against overvoltages at user output (deregulation or connection error) by cutoff with cyclic restart if output voltage > U _n +10%.								
Against overloads by limiting the power supply to P _n +10%.								
Against output short circuits by cutting the power supply with cyclic restart.								

> Electrical characteristics		
> Output use	SYNAPS 56V 5Z P CS	SYNAPS 56V 5F P CS
Nominal regulated voltage (U _n)	56 V DC	
Available load power	120 W	
Maximum current on terminal block	2.16 A	
Permissible current peaks	5.3 A / 3 ms	
Performance	η @ 100% og charge	
	92%	82%
> Functional characteristics		
Provides regulated output voltage compatible with PoE injection.		
Filters electrical network disturbances.		
Does not require a fan.		
IP 65 Cabinet		
> Smart Backup Lithium LFP (5F model with backup)		
Latest generation Lithium LiFePO4 technology (no risk of thermal runaway).		
No lead, no cadmium, 100% recyclable.		
Storage 9 months without recharging.		
10 years lifespan.		
Advanced settings management, element balancing, overload and overvoltage protection.		
> Duration of the backup depending on the power of use (5F model with backup)		
		
		Backup 5F
Power use	Battery life expressed in hours and minutes	
10 W	3h20	
20 W	2h22	
30 W	1h40	
40 W	1h17	
50 W	0h56	
60 W	0h48	
80 W	0h38	
100 W	0h29	
120 W	0h23	
> Accessories and options		
Designations	Descriptive	
A KIT SYNAPS MP HIGH BOX SST	Mast mounting kit for P cabinet	
A KIT SYNAPS MURAL	Wall mounting kit	
A KIT SYNAPS ANTI VANDAL V	Diamond tip kit for cable protection	
A KIT POE PASSIF	Passive PoE injector	
A KIT SPLICE CASSETTE	Fiber winding cassette	
PROTEC SMJ8-CAT5E	Lightning arrester for Ethernet ports	
A KIT 2 HOLE SEALONG INSERT Q10	Two-cable sealing plug for cable gland	
A KIT 3 HOLE SEALONG INSERT Q10	Three-cable sealing plug for cable gland	

*SLAT reserves the right to modify the characteristics of its products without notice.