

UNINTERRUPTIBLE POWER SUPPLIES (UPS) LIGTHING FLOW DIMMER-STABILISFRS

DC POWER SYSTEMS

STATIC INVERTERS
PHOTOVOLTAIC INVERTERS
VOLTAGE STABILISERS
TECHNICAL SUPPORT & SERVICE



FAC Q - FAC M - FAC S: Battery chargers for industrial applications

Traditionally battery charging has been done with units limited to charging the battery, taking little or no care of such important aspects as the efficiency, the DC output voltage curl, the flexibility, the weight, the size, the temperature, the charging control and a long etc.

The **Salicru** Batter Charger Units, using the technology used in high quality power supplies for telecommunications equipment, are characterised by their architecture based on high frequency switching and offering numerous additional services as opposed to other solutions, which gives greater profitability in the industrial process. The **FAC Q**, **FAC M** and **FAC S** series are easily adaptable to a wide range of possible applications and contribute to maintaining a clean, reliable environment.

On the mechanical level, the **FAC Q** and **FAC M** are characterised as offering the wall solution as the most effective in industrial environments lacking in space, while the **FAC S** deals with the portability of the battery charge.

Performances

- · Switched technology.
- · High efficiency and precision.
- · Low output voltage curl.
- · Great flexibility in powers and voltages.
- · Permanent protection against short circuits and overloading.
- · Excellent dynamic behaviour.
- · Capacity to withstand large starting peaks.
- · High power factor.
- · Low starting current.
- · Lower weight and heating.



Applications: Electrical protection and battery charging

The **FAC Q** series is especially conceived to correctly supply all kinds of emergency lighting, surgery lamps, security and alarm circuits, power supply circuits to machines with irreversible processes, converters, breakers, etc.

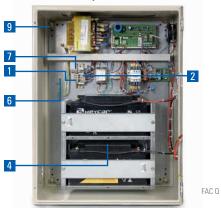
The **FAC M** series is conceived, amongst other applications, to face the usual requirements of automatic remote control, so the battery is provided with the capacity to withstand a large amount of high current peaks.

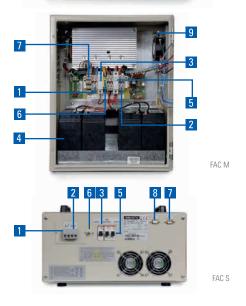


The **FAC S** series, with digital switched technology, covers a market niche traditionally unattended with regard to the technology involved: applications o handling and remote control, power generation, mini-stations or process control in the industrial and electrical sectors, to mention the most representative.



Unit connectivity





- **1.** AC input.
- 2. DC output (or AC in FAC Q).
- **3.** Input protection (on door in **FAC Q**).
- 4. Batteries.
- **5.** Battery protection (on door in **FAC Q**).
- 6. Ground socket.
- 7. Relay interface.
- 8. RS-485 interface.
- **9.** Drill holes for fixing to the wall.

Optional

- · LCD display.
- · Ni-Cd batteries.
- · Relay interface.
- · Voltmeter / Ammeter.
- · Positive and negative ground failure detector.
- · Version I for **FAC Q**: Normal Contactor / Emergency.

Communication & services

- · Standard relay interface and 3 kV isolation.
- Pre-sale and after sale advisory service.
- · Multiple formulae for maintenance and telemaintenance.





ww.linkedin.com/company/salicru

FAC Q - FAC M - FAC S



THECHNICAL SPECIFICATIONS

MODEL			FAC		FAC Q	FAC S
			FAC 165 M	FAC 1000 M	IAU	TAGG
INPUT	AC input		230 V ± 15% 230 V ± 1		230 V ± 10%	230 V + 15 % / -20%
	Power factor		0.7	0.99	0.	7
	Efficiency		> 85%	> 90%	> 85%	> 90%
	Frequency		50 / 60 Hz			
	Protection		Fuse		Circuit breaker	
OUTPUT	Voltage		12, 24, 48 V DC	12, 24, 48, 110, 125 V DC	Normal 24 V AC / Emergency 24 V DC	12, 24, 48, 110, 125 V DC
	Current		Depending on the model			
	Power		165 W ⁽¹⁾	1000 VV (1)	250, 350, 500, 600, 700 VV	1000 W (1)
	Accurancy (with charged batteries)		± 1%	± 0.1%	± 1%	± 0.09%
	Ripple		< 200 mVpp	< 20 mVpp	< 200 mVpp	< 20 mVpp
BATTERIES	Protection		Switch with fuse	Circuit breaker	Circuit breaker	Circuit breaker
	Charge type		1/U			
	Charging current		1.A	0.1 C	3 A	0.1 C
	Protection against overvoltages and undervoltages		Yes			
	Ni-Cd / Pb-Ca		Optional/Yes NA/Yes			NA / Yes
COMMUNICATIONS	Standard relay interface		Optional	Optional	Yes	Optional
		Allocation	Rect. fault / Mains fault	Programmables	Rect. fault / Mains fault ⁽²⁾	Programmables
		Contact quantity	2	5	2 (3)	5
		Remote shutdown	No	Yes	-	-
	3 kV insulation interface		-	Optional	-	Optional
		Allocation	-	Programmables	-	Programmables
		Quantity	-	2	-	2
SIGNALLING	LED synoptic		Yes			
	LCD panel		No	Optional	No	Optional
	Voltmeter / Ammeter		-	-	Optional	-
	Acoustic end of autonomy		-	-	Yes	-
	Positive and negative earth fault		-	-	-	Optional
GENERALS	Structure		Single phase			
	Protection degree ac. to standards		IP21			
	Insulation		>10 MΩ			
	Acoustic noise at 1 metre		< 40 dB			
	Cooling		Natural	Forced	Natural	Forced
	Operating temperature		0° C ÷ + 40° C			
	Storage temperature		- 20° C ÷ + 70° C			
	Relative humidity		Up to 95%, non-condensing			
	Maximum operating altitude		2400 m.a.s.l.			
	Mean Time Between Failures (MTBF)		60,000 hours			
	Mean Time To Repair (MTTR)		30 minutes			
STANDARDS	Safety		EN 60950-1			
	Electromagnetic Compatibility (CEM)		EN 61204-3			
	Quality and Environmental management		ISO 9001 and ISO 14001			

- (1) Except 12 and 24 Vdc.
- (2) Version I: Standard + Normal / Emergency contact (optional).
 (3) 3 contacts for version I.

RANGE

MODEL	DIMENSIONS (D x W x H mm.)	WEIGHT (Kg)
FAC 165 M	200 x 400 x 550	Depending on the model
FAC 1000 M	220 x 400 x 650	Depending on the model
FAC Q	300 x 600 x 800	Depending on the model
FAC S	550 x 400 x 230	Depending on the model

