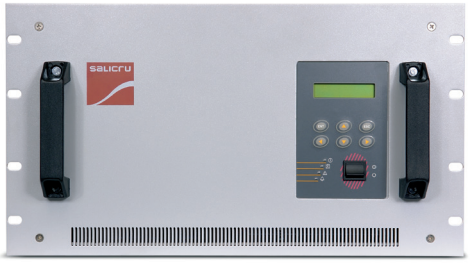
CS-IS DC power converters

CS IS: High performance DC/AC industrial converters

Salicru's **CS IS** series DC/AC converters are based on technically advanced solutions such as PWM technology and digitally controlled servo systems so as to obtain: high performance, low distortion (THDv < 2%) and elevated stability. Moreover, they offer excellent tolerance to short-circuits, polarity inversion protection and the possibility of operating in Eco-mode.

The line is available in power ranges between 1000 and 6000 VA, with admissible continuous incoming voltage from 48 Vdc to 220 Vdc nominal input.



CS 4000-IS

Performances

- Availability in a wide range of voltages and outgoing power.
- Broad range of input voltage variation.
- LCD display comes standard.
- Communication through relay interface or RS-232 / RS-485.
- Excellent dynamic behavior.
- Automatic restart to re-establish incoming power.
- Ramp start.
- 19" rack or box casing

Applications: Energy conversion for industrial plants

Salicru's **CS IS** series provides quality AC power from a DC power source (normally batteries) for the most varied of industrial applications such as cogeneration and biomass plants, gas generators, water distributors, power stations and substations, telecommunications, etc.

Optional

- Static bypass.
- EMI filters.
- Isolation transformer on the bypass line.
- Psofometric filter.
- Anti-harmonic filter.

Services

Pre-sales and post-sales consultation service.
Several maintenance and remote maintenance methods.

TECHNICAL SPECIFICATIONS

MODEL			CS IS
INPUT	DC nominal voltage		48 V, 110 V, 120 V, 125 V, 220 V
	Voltage range		- 17%, + 20%
OUTPUT	AC nominal voltage		120 V, 220 V, 230 V, 240 V
	Accuracy		± 2%
	Frequency		50 / 60 Hz
	Frequency range	Synchronized	0.1 Hz ÷ 9.9 Hz in increments of 0.1 Hz
		Unsynchronized	± 0.05%
	Synchronization speed		1 Hz/s
	Admissible overload		150% for 30 seconds / 125% for 45 seconds
	Efficiency		Up to 92%
GENERALS	Operating temperature		- 10º C ÷ + 40º C
	Cooling		Forced
	Relative humidity		Up to 95%, non-condensing
	Maximum operating altitude		2400 m.a.s.l.
STANDARDS	Safety		EN 60950-1
	Electromagnetic Compatibility (EMC)		EN 61000-6-3; EN 61000-6-1
	Quality and Environmental management		ISO 9001 and ISO 14001

Data liable to changes without prior notice.

RANGE

MODEL	POWER (VA)	INPUT VOLTAGE (Vdc)					DIMENSIONS (D x W x H mm)		WEIGHT (Kg)
		48	110	120	125	220	BOX	RACK	
CS 1000-IS	1000	•	•	•	•	•	385 x 440 x 180 (1)	385 x 483 x 4U (1)	36
CS 2000-IS	2000	•	•	•	•	•	385 x 440 x 180 (1)	385 x 483 x 4U (1)	49
CS 3000-IS	3000	•	•	•	•	•	385 x 440 x 180 (1)	385 x 483 x 4U (1)	57
CS 4000-IS	4000		•	•	•	•	600 x 440 x 270	600 x 483 x 6U	63
CS 5000-IS	5000		•	•	•	•	600 x 440 x 270	600 x 483 x 6U	68
CS 6000-IS	6000		•	•	•	•	725 x 440 x 270	-	84

Dimensions and weights for models without bypass nor filters. Ask for another power needs and/or configurations.
(1) For voltages ≥110 Vdc.

@salicru_en www.linkedin.com/company/salicruen/

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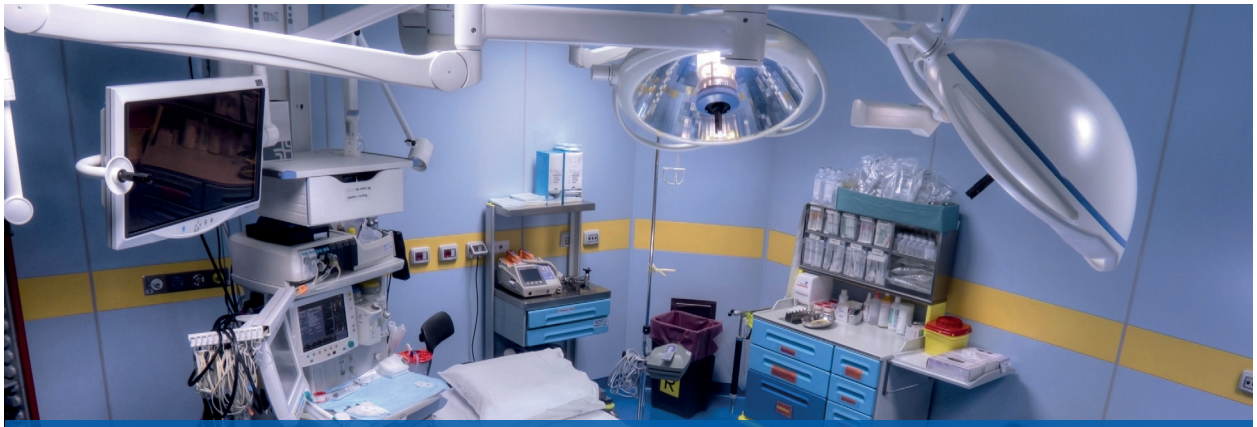
+34 93 848 24 00 WWW.SALICRU.COM
AVDA. DE LA SERRA 100 · 08460 PALAUTORDERA (SPAIN) · FAX +34 93 848 11 51



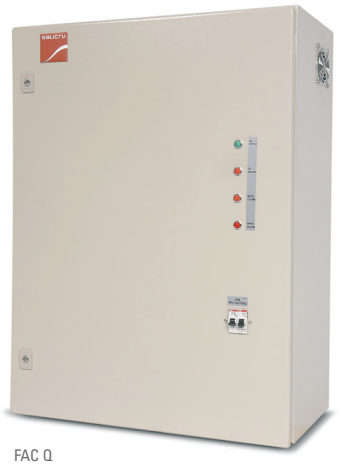
FAC Q

Battery chargers

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

Salicru's Battery Charger **FAC Q** serie, 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** serie 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** are characterised as offering the wall solution as the most effective in hospitals.



FAC Q

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.

Optional

· Ni-Cd batteries.
· Voltmeter / Ammeter.
· Version I for **FAC Q**: Normal Contactor / Emergency.

Services

· Pre-sale and after sale advisory service.
· Multiple formulae for maintenance and telemaintenance.

THECHNICAL SPECIFICATIONS

MODEL		FAC Q
INPUT	AC input	230 V ± 10%
	Power factor	0.7
	Efficiency	> 85%
	Frequency	50 / 60 Hz
	Protection	Circuit breaker
OUTPUT	Voltage	Normal 24 V AC / Emergency 24 V DC
	Current	Depending on the model
	Power	250, 350, 500, 600, 700 W
	Accurancy (with charged batteries)	± 1%
	Ripple	< 200 mVpp
BATTERIES	Protection	Circuit breaker
	Charge type	I / U
	Charging current	3 A
	Protection against overvoltages and undervoltages	Yes
	Ni-Cd / Pb-Ca	Optional / Yes
COMMUNICATIONS	Standard relay interface	Yes
SIGNALLING	LED synoptic	Yes
	Acoustic end of autonomy	Yes
GENERALS	Protection degree ac. to standards	IP21
	Insulation	> 10 MΩ
	Acoustic noise at 1 metre	< 40 dB
	Cooling	Natural
	Operating temperature	0º C ÷ + 40º C
	Relative humidity	Up to 95%, non-condensing
	Maximum operating altitude	2400 m.a.s.l.
STANDARDS	Safety	EN 60950-1
	Electromagnetic Compatibility (CEM)	EN 61204-3
	Quality and Environmental management	ISO 9001 and ISO 14001

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