



FAC P DC power systems

FAC P: DC Power Systems for medium and high powers

The Salicru **FAC P** series DC Power Systems are rectifiers especially designed to supply the most varied medium and high power equipment in DC. Made in powers of 1000, 2000, 2700 and 5000 W, they can be connected in parallel and form part of 19" cabinets, where each cabinet can also include the monitoring and control unit (MS-102), batteries and DC output distribution, and a load priority system. Each rectifier module is also prepared for hot swapping, with all of the advantages that this involves for the system operation.

On the other hand, the large amount of rectifier modules that can be connected in a single system will allow a power concentration of over 170 kW.

The Monitoring and Control Unit (MS-102) controls the whole system, stores and manages input, output and battery data and all of the parameters are programmed here. Through the RS-485 port, there is communication with the rectifier modules, controlling at all times the output voltage, the current spreads between modules, the battery loading current, the control of the priority and non-priority load contactors, the ends of autonomy, etc. Exterior communication may be in local or remote mode (GSM / TCP-IP).

Performances

- Suitable for single phase or three-phase supplies.
- Great power density.
- Easy installation and maintenance.
- Low cost operation and maintenance.
- High MTBF.
- High efficiency.
- Battery charging current limitation.
- Unit power factor.
- Hot swapping modules.
- Monitoring and Control Unit (MS-102).



FAC 1000 P



FAC 2000 P



FAC 2700 P



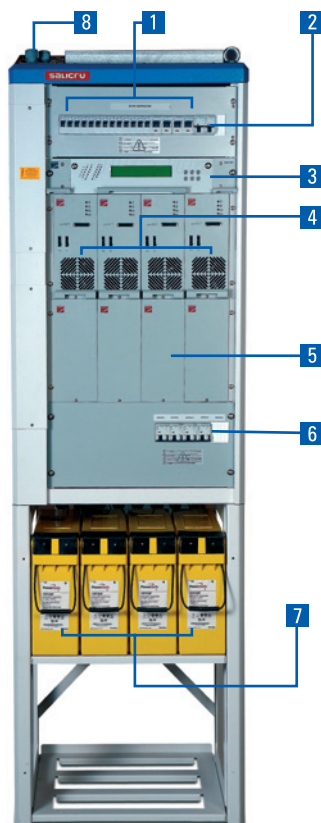
MS-102

Applications: DC power systems always available

The Salicru **FAC P** series DC Power Systems provide high level supply to the always critical telecommunications systems, guaranteeing their perfect operation without unexpected cuts. Due to their modular nature, they can also be expanded according to needs, thus optimising the investment.



Unit connectivity



1. Output distribution.
2. Input protection.
3. MS-102.
4. FAC P modules.
5. Slots for increasing power.
6. Battery protection.
7. Batteries.
8. Cable input.

Optional

- MS-102 Monitoring and Control Unit.
- Output distribution.
- Positive, negative or floating output voltages.
- Ground failure detector.
- Any type of battery: Sealed, Ni-Cd, open, etc.
- Atmospheric discharger.
- Output voltage reducer.
- Other IP.

Communications & services

- RS-232 and RS-485 serial ports.
- Relay interface.
- MODBUS communications protocol.
- Pre-sale and after-sale advisory service.
- Multiple formulae for maintenance and telemaintenance.

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THE TECHNICAL SPECIFICATIONS

MODEL		FAC 1000P	FAC 2000P	FAC 2700P	FAC 5000P	
INPUT	Ac voltage	230 V			230 V or 3x400 V	
	Voltage range	± 15%				
	Power factor	> 0.99 ⁽¹⁾				
	Nominal current	5.0 A	10.7 A	13.5 A	24.8 A	
	Maximum current	5.9 A	12.6 A	15.8 A	29.2 A	
	Efficiency	> 87%	> 82%	> 90%		
	Frequency	50 / 60 Hz				
	Protection	Electronic				
	OUTPUT	DC nominal voltage	12, 24, 36, 48, 60, 110, 125, 216, 220 V	48, 110, 125 V		12, 24, 36, 48, 60, 110, 125, 216, 220 V
		Voltage adjustment range	- 15% + 25%			
Accuracy		± 0.1% (with charged batteries)				
Nominal power		1000 W ⁽²⁾	2000 W ⁽³⁾	2700 W	5000 W ⁽³⁾	
Nominal current		25, 25, 24, 18, 14, 8, 7, 4, 4 A	75, 75, 48, 36, 29, 16, 14, 8, 8 A	49, 22, 20 A	181, 181, 121, 91, 72, 40, 36, 20, 20 A	
Psophometric noise		< 3 mV		< 1 mV	< 3 mV	
Load sharing		Active parallel				
STRUCTURE	Power factor corrector (PFC)	Yes ⁽¹⁾				
	Protection	Against 5 kV peaks (8 / 20 µs)				
BATTERIES	Type	Pb-Ca or Ni-Cd				
	Charging curve	I / U constant				
	Charging current	0.1 a 0.3 C adjustable				
	Recharging time	Up to 80% in 4 hours (0.2 C)				
	Protections	Against over-voltages and under-voltages				
GENERALS	Dielectric strength	2000 V @ 1 minute				
	Protection degree ac. to standards	IP20				
	Insulation	> 20 MΩ				
	Acoustic noise @ 1 metre	< 50 dB				
	Cooling	Forced	Controlled and forced	Forced		
	Operating temperature	0° C ÷ + 40° C				
	Storage temperature ⁽⁴⁾	- 20° C ÷ + 70° C				
	Relative humidity	Up to 95%, non-condensing				
	Maximum operating altitude	2400 m.a.s.l.				
	Mean Time Between Failures (MTBF)	100,000 hours	150,000 hours	100,000 hours		
Mean Time To Repair (MTTR)	15 minutes					
INDICATORS	Display LCD	Yes	NA	Yes		
	General alarm	Yes				
	Equipment On	Yes				
	Batteries on discharge / float	Yes	NA	Yes		
COMMUNICATIONS	Ports	RS-232 / RS-485 / relays				
STANDARDS	Safety	EN 60950-1				
	Electromagnetic Compatibility (EMC)	EN 61204-3; ETS 300 386-2				
	Quality and Environmental management	ISO 9001 and ISO 14001				

(1) Single phase input only.

(2) Except 12 V and 24 V output voltages.

(3) Except 12 V output voltage.

(4) No batteries.

Data may change without previous notice.

RANGE

RECTIFIER MODULE	DIMENSIONS (D x H x W mm.)	WEIGHT (Kg)
FAC 1000P	425 x 483 x 2U	12
FAC 2000P	525 x 483 x 3U ⁽⁵⁾	15
FAC 2700P	450 x 73 x 6U	6
FAC 5000P	525 x 483 x 4U	28

(5) 2U for 48V models.



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