



## ▶ OPTIMUS: Energy compact systems for telecommunications

The DC energy systems of **OPTIMUS** series of **SALICRU** are rectifiers specially designed to supply small and medium power rates of Telecommunication equipment. Manufactured in versions of 300 and 700W per module, it can be set as in quantity of rectifiers as battery or outgoing distribution breakers in order to be adapted to all the power supply requirements.

They are ready to be fitted in 19" or ETSI cabinets, being able to connect up to 2 subracks in parallel for those applications with higher energy consumption. The main subrack has, in the maximum configuration, 3 plug-in rectifiers, supervision and control unit MS-100, outgoing distribution unit with 8 breakers of different sizes, alarm card and 2 breakers to connect 2 battery strings.

All the values and parameters of the system, as well as the alarm category can be set through a LCD panel or PC software (options).

▶ Optimus 300 W



▶ Optimus 700 W



## ▶ QUALITY PERFORMANCES

- ▶ Ready for single or three phase mains.
- ▶ High density power.
- ▶ Easy installation and maintenance.
- ▶ High Mean Time Between Failures (MTBF).
- ▶ Low operating and maintenance costs.
- ▶ Battery charge current with limit.
- ▶ Outgoing distribution unit plug-in type (8 breakers).
- ▶ Battery unit plug-in type (2 breakers).
- ▶ Ready to connect any kind of batteries.
- ▶ Front input / output connectors.
- ▶ Alarm card.
- ▶ Breaker size up to 30 A (OPTIMUS 300) or 60 A (OPTIMUS 700).
- ▶ Modularity: Up to 3 rectifiers plug-in type per subrack.
- ▶ Input power factor close to one.

▶ LCD panel



▶ Control MS-100 by microprocessor



▶ Power supply and alarm unit



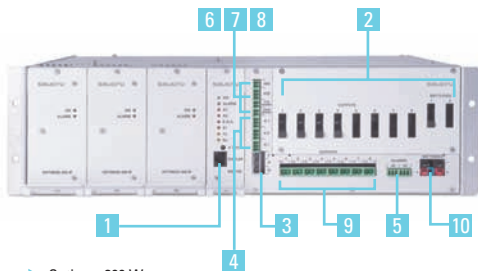
## ▶ APPLICATIONS: Telecommunication systems always ready

The DC energy systems of **OPTIMUS** series of **SALICRU** provides a high performance power supply to the always critical telecommunication systems, guaranteeing its perfect operating without any unexpected break. Besides, thanks to its modular nature, it can be upgraded according to your needs, improving your investment.

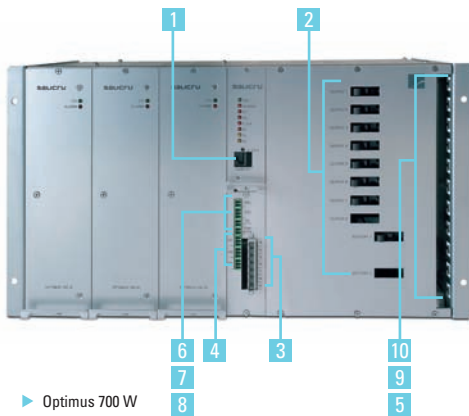


## ► EQUIPMENT connectivity

1. RJ-45 connector for LCD panel or Computer options.
2. 10 plug-in connections (8 for outgoing distribution and 2 for batteries).
3. AC mains connector.
4. Alarm output: Urgent (A1), Non-urgent (A2) and Information (O1).
5. Alarm output for breaker tripping (O2) and battery breaker tripping (O3).
6. Temperature probe.
7. Maximum/minimum input voltage measurement.
8. RS-232 and RS-485 ports.
9. Output from 1 to 8.
10. Battery connectors.



► Optimus 300 W



► Optimus 700 W

## ► OPTIONS

- LCD panel.
- Monitoring software for Windows family.
- RS-485 to TCP-IP converter.

## ► COMMUNICATIONS and services

- Supervisor and control unit MS-100.
- RS-232 and RS-485 serial ports.
- Before sales advising and after sales service.
- Multiple formulas of maintenance and telemaintenance.

## ► TECHNICAL SPECIFICATIONS

MODEL	OPTIMUS 300	OPTIMUS 700		
INPUT	AC voltage	230 V		
	Voltage range	± 15%		
	Power factor	> 0,86	> 0,95	
	Nominal current	1,4 A	3,6 A	
	Maximum current	2,1 A	6,4 A	
	Efficiency	> 85% (50% to 100% of the load)	> 90% (10% to 100% of the load)	
	Frequency	50 / 60 Hz		
	Protection	Input fuse 10 A and overtemperature		
	OUTPUT	DC voltage	- 48 V	
		Voltage adjustment	- 48 V to - 60 V	
Accuracy		± 0,1% (with battery fully charged)		
Nominal power		300 W	700 W	
Maximum subrack power		900 W	2100 W	
Nominal current (per module)		5,5 A	13 A	
Response time		± 0,1% (10% to 100% load steps)		
Protection		Output fuse 5 A		
Maximum ripple		50 mVpp		
STRUCTURE		Single or three phase	Active Power Factor Correction (PFC)	
	Protection	Against 5 kV transients ( 8 / 20 impulses µs)		
GENERALS	Dielectric strength	1500 Vac, 1 minute, input		
		800 Vac, 1 minute, output		
	Protection degree in accordance with standards	IP20		
	Isolation	> 10 MΩ		
	Psophometric noise	< 2 mV		
	Acoustic noise at 1 metre	< 40 dB		
	Cooling	Natural		
	Operating temperature	- 10° C ÷ + 45° 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)	250.000 hours			
Mean Time To Repair (MTTR)	15 minutes			
INDICATORS AND COMMUNICATION	Optical module indicators	On / Rectifier fault		
	Optical control MS-100 indicators	On, Alarm, Alarm A1, Alarm A2, End of autonomy, Alarm O1, TX, RX		
	Communication port	RS-485 or RS-232 through RJ-45 connector		
STANDARDS	Protocol	MODBUS, as standard		
	Safety	EN 60950-1		
	Electromagnetic Compatibility (EMC)	ETS 300386-2		
	Marking	CE		
Manufacturing	ISO 9001-TÜV			

Data liable to changes without prior notice.

## ► RANGE

MODULE	POWER / MODULE (W)	DIMENSIONS (D x W x H mm)	WEIGHT <sup>(1)</sup> (Kg)
OPTIMUS 300	300	260 x 483 x 133	13
OPTIMUS 700	700	260 x 483 x 267	17

(1) Complete subrack



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