

STATIC INVERTERS SERIES IS and ISC

TECHNICAL CHARACTERISTICS

Input	Voltage	12, 24, 36, 48, 60, 120, 144, 168, 192, 216, 240, 264, 288, 312 and 366 DC V (other voltages under demand)
	DC supply voltage	-17%, +20% (other margins under demand)
	By-pass AC supply voltage	± 7%
	Efficiency	70% to 93% depending on the model
Output	Voltage	230 AC V ± 2% (sine wave)
	Power	According to table annexed
	Harmonic distortion	< 2% for lineal loads < 3% for non lineal loads (P.F. = 0.8)
	Type of output wave	Sine-wave "IS", step-wave "ISC"
	Technology	PWM
	Frequency	50 Hz ± 0.05%
	Overload	Up to 150% for 20s
	Power Factor permitted	0.7 lead. 0.7 lagg.
	Crest factor	3
	Shorted output	Yes
General	Protection	Against 5kV peaks (8/20us pulses)
	Dielectric strength	3000 AC V 1 min.
	Insulation	10 MΩ
	Ventilation	Forced air
	Audible noise at 1 m.	< 45dB
	Protection degree according Standards UNE 20 324 78 IR	IP 20
	Operating temperature	-20°C to 40°C
	Storage temperature	-40°C to 85°C
	Maximum operating altitude	1000 m. above sea level
	Humidity	Up to 95% non condensing
	MTBF	120.000 hours
	MTTR	30 min.
	Compliance to Standards	EN 60950, EN 41003, Annex ZA of EN 60950 EN 50081-1992, EN 50082-1: 1992 Chap.2 of UNE-EN 50081-1 and 50082-1 page 5
Indicators	Visual (front panel) LED's Synoptic	Line By-pass enabled Battery ok/low Overload Fault Output
	LCD display	Input / Output voltage, output current, output power, input / output frequency, battery charge / discharge current & voltage, internal / heat-sink temperature, alarm menu, calibration screens, etc.
	Audible Relay interface	For overload and inverter failure Shutdown Battery low Equipment on Inverter / By-pass
Communication	Relay interface	
	Serial port	RS-485 or RS-232
Protections	From the mains	Circuit-breaker
	From the Battery	Circuit breaker Low battery voltage detector
	From the output	Overload electronic detector Short-circuit electronic detector Output voltage off margins electronic detector
Optional	Static By-pass	
	LCD display	
	Serial communications RS-485 / 232	
	Input, output, battery, By-pass and anti-harmonic filters	
	Protection against reverse polarity (standard in IS) Isolation transformer in the By-pass line.	

CASING

The Inverters Series IS and ISC of SALICRU ELECTRONICS can be delivered in cabinet as well as in 19" subrack.



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