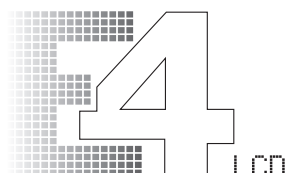




L'Énergie Sans Limite !
Safe Energy for Life !



Networks & critical applications - Industrial Environments



Pro

From 1 to 10k VA

The entire range of E4 LCD Pro (S) a high level of electrical security, together with the essential features to protect your critical equipment.

An advanced technology

Equipped with the On Line Double Conversion controlled by a microprocessor, the E4 LCD Evolution range delivers a perfect sinewave output current and provides thorough and effective protection of critical devices.

The output power factor is optimal, reaching 0.9, to provide high performance and efficiency for critical applications.

Smart features

- **Cold start function:** It enables an emergency situation involving a total power cut to be overcome by starting the UPS using batteries without the mains power supply.
- **UPS controlled by a microprocessor:** Among other advantages this control mode provides a wide range of input voltage (110 V to 300 V), an input power ratio of more than 95 %, little harmonic distortion and effective noise reduction.
- **Energy saving ECO mode** (1 to 3kVA versions): Efficiency of up to 97 % equates to energy and cost savings. In addition, a static bypass power supply via the UPS offers timely return to on-line double conversion if required.
- **Emergency Power Off (EPO):** This function ensures the safety of personnel and hardware in the event of fire or any other emergency situation by triggering the total and immediate shutdown of the UPS.

Practical design



UPS status is seen at a glance on an intuitive LCD screen. The UPS is controlled by a simple control panel on the front with 3 or 4 buttons: ON/OFF, operating mode configuration, voltage setting, programmable outlet setting...

Communication

USB or RS 232 communication ports and SNMP interface enable an E4 LCD UPS to communicate with the various stations and IT servers it is protecting. The multiple communications function should be noted: USB or RS232 ports can therefore operate simultaneously with the SNMP interface.



E4 LCD Pro
1-3 k VA

E4 LCD Pro
5-10 k VA



On Line Double
Conversion Technology



LCD Control screen



USB & RS232
communication ports



Remote control
software



Extended backup time
version available

TECHNICAL SPECIFICATIONS

E4 LCD PRO 1000 (S)	E4 LCD PRO 1500 (S)	E4 LCD PRO 2000 (S)	E4 LCD PRO 3000 (S)	E4 LCD PRO 5000 (S)	E4 LCD PRO 6000 (S)	E4 LCD PRO 8000 (S)	E4 LCD PRO 10000 (S)
------------------------	------------------------	------------------------	------------------------	------------------------	------------------------	------------------------	-------------------------

GENERAL CHARACTERISTICS

Technology	On Line Double Conversion							
Power (VA)	1000 VA	1500 VA	2000 VA	3000 VA	5000 VA	6000 VA	8000 VA	10000 VA
Power (W)	900 W	1350 W	1800 W	2700 W	4500 W	5400 W	7200 W	9000 W
Power factor	0,9							

PHYSICAL CHARACTERISTICS

Standard	Dim. D x W x H (mm) - UPS	282 x 145 x 220	397 x 145 x 220	421 x 190 x 318	369 x 190 x 688	442 X 190 X 688
	Net weight (kg)	9.8	17	27.6	72	82
Long Backup time (S)	Dim. D x W x H (mm) - UPS	282 x 145 x 220	397 x 145 x 220		369 x 190 x 318	442 X 190 X 318
	Net weight (kg)	4.1	6.8	7.4	21	23

TECHNICAL INPUT CHARACTERISTICS

Low voltage range	Low Line transfer (based on load percentage : 100%-80% / 80%-70% / 70%-60% / 60%-0%)	180 VAC / 160 VAC / 140 VAC / 120 VAC +/- 5%	110 VAC +/- 3% at 50% load 176 VAC +/- 3% at 100% load
	Low Line comeback	195 VAC / 175 VAC / 155 VAC / 135 VAC +/- 5%	120 VAC +/- 3% at 50% load 186VAC +/- 3% at 100% load
High voltage range	High Line transfer (based on load percentage : 100%-80% / 80%-70% / 70%-60% / 60%-0%)	300 VAC / 280 VAC +/- 5%	300 VAC +/- 3%
	High Line comeback	290 VAC / 270 VAC +/- 5%	290 VAC +/- 3%
Frequency range		40 Hz ~ 70 Hz	50 Hz : 46 Hz ~ 54 Hz or 60 Hz : 56 Hz ~ 64 Hz
Power factor		> 0,99 at 100% load	> 0,99 at 100% load

TECHNICAL OUTPUT CHARACTERISTICS

Voltage	200/208/220/230/240 VAC			208 / 220 / 230 / 240 VAC			
AC voltage regulation (Batt mode)	+/- 1%			+/- 1%			
Frequency range (Synchronized range)	50 Hz : 47 ~ 53 Hz or 60 Hz : 57 ~ 63 Hz			50 Hz : 46 Hz ~ 54 Hz or 60 Hz : 56 Hz ~ 64 Hz			
Frequency range (Batt mode)	50 Hz +/- 0,5 Hz or 60 Hz +/- 0,5 Hz			50 Hz +/- 0,1 Hz or 60 Hz +/- 0,1 Hz			
Current crest ration	3 : 1			3 : 1 (max)			
Harmonic distortion	<= 3% THD (Linear Load); <= 6% THD (Non-linear Load)						
Transfer time	Line mode to battery mode			0 ms			
	Inverter to Bypass			0 ms			
Waveform	4 ms (Typical), 10 ms (max.)						
Output outlets IEC standards	Pure sinewave						
Output terminal block	3	4	4	0	0	0	0
	no			yes			

EFFICIENCY

AC mode	88%	89%	90%	89%	90%
Battery mode	83%	85%	88%	88%	89%
Eco mode	94%-95%			-	

BATTERY

Standard model	Battery type	12 V / 9 AH			12 V / 9 AH	
	Number	2	4	6	16	20
	Typical recharge time	4 hours recover to 90% capacity			9 hours recover to 90% capacity	
	Charging current (max)	1A			1A (max 2A)	
Long backup time model (S)	Backup time	from 3 to 30 minutes depending on the connected load				
	Typical recharge time	Depending on the capacity of external batteries				
	Charging current (max)	1A/2A/4A/6A			4A (max 6A)	

DISPLAY

LCD screen	Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicator.
------------	---

AUDIBLE ALARMS

Battery mode	Sounding every 4 seconds
Low battery	Sounding every second
Overload	Sounding twice every second
Fault	Continuously sounding

MANAGEMENT / COMMUNICATION

Communication	USB & RS232 port and Infopower included software (support Windows family, Linux, Unix and MAC) Optional SNMP
---------------	---

ENVIRONMENT

Humidity	20 - 90% relative humidity @ 0-40° non condensing			0 - 95% relative humidity @ 0-40° non condensing	
Operating Altitude	Up to 1000 m above sea level (> 1000 m 1% deterioration for every 100 m)				
Noise level	Less than 50dBA @ 1 meter			Less than 55dBA @ 1 meter	Less than 58dBA @ 1 meter
Heat dissipation max - HV (230 V)	141 W / 481,11 Btu/h	256 W / 873,5 Btu/h	348 W / 1187,41 Btu/h	667 W / 2276,45 Btu/h	960 W / 3276,45 Btu/h

NORMS

Standard	CE RoHS	CE RoHS, cTUVus
EMC (Electromagnetic compatibility)	EN 62040-2:2006+AC:2006; EN 61000-3-2:2006+A1:2009+A2:2009; EN 61000-4-2:2009; EN 61000-4-3:2006+A2:2010; EN 61000-4-4:2012; EN 61000-4-5:2006; EN 61000-4-6:2014; EN 61000-4-8:2010; EN 61000-2-2:2002	EN 62040-2 : 2006 ; EN 61000-2-2 : 2002; EN61000-4-2 : 2009; EN61000-4-3:2006 +A1:2008 +A2:2010; EN61000-4-4:2004+A1:2010; EN61000-4-5:2006; EN61000-4-8:2010
Low voltage (Safety)	EN 62040-1:2008+A1:2013	EN62040-1 : 2008

SALES INFO

Warranty			2 years							
Gencods - standard versions			3700085 672303	3700085 672747	3700085 672310	3700085 672327	3700085 672662	3700085 672679	3700085 672686	3700085 672693
Gencods - Long backup time version (S)			3700085 672365	3700085 672754	3700085 672372	3700085 672389	3700085 672709	3700085 672716	3700085 672723	3700085 672730

S models are long-autonomy UPS devices without internal batteries.

E4 LCD Pro UPS devices are also available in 110V (LV) - Refer to our sales contacts.

E4 LCD Pro

From 1 to 10k VA

Package content

- 1 input cable (1 to 3 kVA models),
- IEC 10A output cable (1 to 3 kVA models),
- 1 RS 232 cable,
- 1 USB cable,
- 1 battery cable (5k to 10kVA and S models),
- 1 user manual,
- Infopower Software.

Infopower software

An E4 LCD Pro UPS can close files automatically on its own, if there is no power, thanks to the InfoPower control software (supplied as standard), and in doing so save data from all the PCs in a network.

The communication software also offers a graphic interface to view system status, various measurements, events log, etc.



Options

Model	Ref
SNMP Card	61424
Dry contacts cards	61433
RS 485 Card	61439
BME 1 IEC	61440
BME 1 FR	61441
Additional battery bank	-
Environment measure device	61452

Warranty

Two-year warranty



Infosec Communication

4, rue de la Rigotière
44700 ORVAULT - FRANCE

Sales Contact

Tel : 02 40 76 11 77
commercial@infosec.fr

www.infosec-ups.com