

Networks & Critical Apps, Industrial Environments



E4 LCD Pro range offers an excellent electrical security level and the main features for the protection of your essential and strategic loads.

On Line Double Conversion technology High Frequency microprocessor-controlled

The most reliable technology

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The microprocessor-controlled On Line Double Conversion technology, delivers a pure sinewave output current for applications with an essential role. Models equipped with this technology have the latest generation IGBT switch on their inverter and rectifier circuits.

The output power factor is optimal, reaching 0.9 on the whole range. Monitoring the UPS through a microprocessor offers a wide input voltage range, a high input power factor, a low harmonic distortion and a noticeable reduction of noise intensity.



E4 LCD Pro 1-3 k VA E4 LCD Pro 5-10 k VA





On Line Double Conversion Technology







• Features fit for the most demanding needs

E4 LCD Pro range features the requested technical specifications designed to offer an optimal level of performance that fits to the most varied needs. Service continuity is guaranteed in any circumstance, even when the UPS is set to Eco mode, or during maintenance operations with the internal manual bypass set during the interventions (from 5k to 10k VA). The Emergency Power Off feature (from 5k to 10k VA) guarantees the maintenance staff's safety and the protection of its environment.

Very low distortion of input current Input Power Factor correction up to >0.99% Output power factor of 0.9 For the most disturbed or demanding environments: Extended backup time available on S models with external Battery Bank

SECURITY AND SERVICE CONTINUITY

• A safe solution

- Protection against any wiring default
- Reliability: automatic control of the load, the input voltage and the internal status of the UPS
- Automatic testing during the initialization of the device
- Protection of the internal power components

• Emergency Power Off (EPO) Function

This port is dedicated to the installation of the Emergency Power Off Function (EPO) for staff's safety and equipment protection, allowing to immediately and completely shut down the UPS (models from 5k to 10k VA).

Cold-start function

In case of an emergency, this feature allows to overcome a total shutdown by starting the UPS thanks to its batteries.

ECO functioning mode allowing to save energy



Eco mode allows to reduce the energy consuming and costs, thus reaching a 90% efficiency.

This feature allows the unit to supply the connected load directly from the mains while maintaining the UPS device fully operational in case a failure or an important voltage fluctuation should occur, thus guaranteeing a continuous supply of the system.

This functioning mode supplies the UPS through the static bypass and allows a relevant return to the Online Double Conversion if necessary.

E4 LCD Pro UPS devices from 1 to 3 kVA also feature an Advanced Eco mode allowing to reach a 95% efficiency.

USER-FRIENDLY WITH COMMUNICATION FEATURES

• Easy to use LCD screen

	88°A 🛛 🖊
LOW BATT.	

• Sharp and user friendly: status indicators and real-time parameters information

FPO

- Intuitive LCD display on the front panel: direct access to the UPS settings for a quick modification of the operational modes (output voltage settings...)
- Frequency setting on 50 or 60 Hz or auto-detection (easily set from the LCD screen of the device)

Communication interfaces

Several **communication interfaces** allow E4 LCD Pro UPS devices to be remotely controlled thanks to the InfoPower software. An uninterrupted monitoring of the UPS status and its connected applicatons is then possible:

- The **USB port** or **RS232** allow to use communication protocols of IT infrastructures, Data Centers or telecommunication networks.
- An SNMP port allows to add an SNMP card (as an option) managed by a software installed on a server.

Remote management software

The Infopower management software is provided as a standard with the E4 LCD Pro UPS:

- Setting the time of initialization and shutdown of the device
- Recording of the data and events allowing a daily maintenance
- E-mail messaging to manage the status of the UPS at any time from the local network
- Automatic files closing by the UPS when the mains is not available: protection of the data of all the computers of a same IT network
- Intuitive graphic interface: allows to monitor the system's status, the key indicators, the events history...

O By-pass manuel de maintenance

- Allows to provide connected equipment with a permanent voltage during maintenance through the rotary switch and therefore avoids the IT network's shutdown.
- As a standard on the E4 LCD Pro UPS range from 5 to 10 kVA.
- As an external option on E4 LCD Pro UPS devices under 5 kVA.



CONNECTIONS AND BATTERIES

• A connectivity designed for several needs



OPTIONS

Communication options

SNMP Agent

Using an SNMP agent simplifies the management (locally and on several places) of **E4 LCD Pro** and of the network's supply thanks to its setting and programming features:



- Connection to the Ethernet network and identification by IP address
- Configuring and programming extensions and restart of the system on a weekly (or other) basis ...
- UPS configuration locally or remotely

AS400 Dry Contacts Card

The AS400 communication card sends dry contacts to report the alarms triggered in the UPS (for centralized technical managements for example).

Depending on the applicatons, dry contacts can be normally open or normally closed.

EMD

This probe is meant for detecting the environmental conditions



of the UPS and allows from a distance to monitor the temperature and the moisture rate of the room. This probe is connected to the SNMP card, and can also be used to send dry contacts, this being compatible with security or alarms systems.

RS485 Card

An RS 485 card can be added as an option in order to allow the E4 LCD Evolution UPS to communicate with installations using industrial protocols on long distance.

Isolation transformer

An isolation transformer at the input and the output providing the system a complete galvanic isolation between the upstream and downstream circuits. The equipment therefore adapts perfectly to all neutral systems upstream as much as downstream.

– BMe

For models from 1000 to 3000 VA, E4 LCD Pro is compatible with the External Maintenance Bypasses BMe 1 with IEC or FR/Schuko outlets.



During maintenance works on a UPS device, BMe1 guarantees, through its independent line, the continuous supply of the connected equipement.

This option can be installed in a few minutes and guarantees the staff's safety without any service interruption.

• Extended backup time

In order to benefit from a prolonged backup-time in disturbed or demanding environments, external battery modules can be added to, **E4 LCD Pro** (option).

Several types of battery banks exist according to the type of batteries required, and also depending on the place's configuration. The wide and modular



battery banks offer allows to answer most of the needs.

S versions (Extended Backup Time) are delivered without internal batteries, but with external battery banks.

From 1000 to 3000 VA, an external battery charger can also be added to a standard model to allow increasing the number of battery banks that can be configured on the UPS (up to 4).

TECHNICAL SPECIFICATIONS

Technology	RACTERISTICS	1000 (S)	1500 (S)	2000 (S)	3000 (S)	5000 (S)	6000 (S)	8000 (S)	10000 (S	
					On Line Doub					
Power (VA) Power (W)		1000 VA 900 W	1500 VA 1350 W	2000 VA 1800 W	3000 VA 2700 W	5000 VA 4500 W	6000 VA 5400 W	8000 VA 7200 W	10000 V/ 9000 W	
Power factor		500 W	1550 W	1000 W		,9	1 2400 11	7200 W	9000 11	
PHYSICAL CH/	ARACTERISTICS									
Chandrad	Dim. D x W x H (mm) - UPS	282 x 145	397 x 14	5 x 220	421 x 190	369 x 19	90 x 688	442 X 1	90 X 688	
Standard Net weight (kg)		x 220 x 318		27.6	72		82			
Long Backup	Dim. D x W x H (mm) - UPS	282 x 145	39	7 x 145 x 22		369 x 190 x 318		442 X 190 X 318		
time (S)	Net weight (kg)	x 220 337 x 143 x 220 4.1 6.8 7.4		21		23				
FECHNICAL IN	IPUT CHARACTERISTICS									
	Low Line transfer (based on load					1	10.146 . / 3	0/ at 500/ la		
Low voltage	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					
range	Low Line comeback	195 VAC / 175 VAC / 155 VAC / 135 VAC +/- 5%			120 VAC +/- 3% at 50% load					
	High Line transfer (based on load	195 VAC / 1/5 VAC / 155 VAC / 135 VAC +/- 5%				18	86VAC +/- 39	% at 100% lo	ad	
High voltage	percentage : 100%-80% / 80%-	300 VAC / 280 VAC +/- 5%			5		300 VA0	C +/- 3%		
range	70% / 70%-60% / 60%-0%) High Line comeback		290 VAC / 270	VAC +/- 5%			290 VA	C+/- 3%	-	
Frequency range			290 VAC / 270 VAC +/- 5% 40 Hz ~ 70 Hz				290 VAC +/- 3% 50 Hz : 46 Hz ~ 54 Hz or 60 Hz : 56 Hz ~ 64 Hz			
Power factor			> 0,99 at 10	00% load			> 0,99 at 1	100% load		
	UTPUT CHARACTERISTICS				_					
Voltage AC voltage regu	lation (Batt mode)		200/208/220/2		<u> </u>		208/220/2	240 VAC		
Frequency range	e (Synchronized range)		: 47 ~ 53 Hz oi	r 60 Hz : 57 /			Hz ~ 54 Hz c	or 60 Hz : 56		
Frequency range Current crest ra		50 H	z +/- 0,5 Hz or	60 Hz +/- 0	,5 Hz 3		z +/- 0,1 Hz c	or 60 Hz +/- 0),1 Hz	
Harmonic distor			<=	3% THD (Lii	near Load); <		on-linear Loa	ad)		
Transfer time	Line mode to battery mode Inverter to Bypass		0 m					ms		
Waveform			4 ms (Ty	(pical)	Pure si	newave	01	ms		
Output outlets I		3		4	1			0		
Output terminal	block		no		yes		y	es		
EFFICIENCY		0.001			0.001					
AC mode Battery mode		88% 83%	899		90% 88%		9% 3%		0% 9%	
Eco mode			94%-9					-		
BATTERY										
	Battery type		12 V /					/ 9 AH	20	
Standard model	Number Typical recharge time	2 4 h	4 ours recover t		6 city		6 ours recover		20 acity	
	Charging current (max)		1 <i>A</i>	۰. ۱			1A (m	iax 2A)		
Long backup	Backup time backup Typical recharge time		fror		inutes depen on the capa			bad	-	
time model (S)	Charging current (max)		1A/2A/4		for the capa			iax 6A)		
DISPLAY										
LCD screen		Loa	d level, Batter					d Fault indic	ator.	
Audible alarms				Battery	mode, Low ba	attery, Overlo	ad, Fault			
BYPASS										
Static hunses			Opti	on	Y	es	Y	es		
Manual bypass	T / COMMUNICATION									
Manual bypass	T / COMMUNICATION	USB & RS23	2 port and Inf	opower incl	uded softwa	re (support V	Vindows fam	ilv. Linux. Ur	nix and MA	
Manual bypass MANAGEMEN	T / COMMUNICATION		2 port and Inf I SNMP I : pow		ment from Sl	NMP manage				
Manual bypass MANAGEMEN Communication	T / COMMUNICATION			ver manage	ment from Sl		er (VMware [©]			
Manual bypass MANAGEMEN Communication EPO Connector			I SNMP I : pov	ver manage	ment from Sl	NMP manage	er (VMware [©]	compatible)		
Communication EPO Connector ENVIRONMEN		Optiona	I SNMP I : pow	ver manage	ment from Sl brov	NMP manage wser	er (VMware [©]	compatible) es	and web	
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Manual bypass MANAGEMEN Communication EPO Connector ENVIRONMEN Humidity	IT	Optiona 20 -	I SNMP I : pow No 90% relative h non conc	ver manage b numidity @ (densing 0 m above s	ment from Si brow D-40° ea level (> 10 er	NMP manage vser 0 - 9 00 m 1% der Less than 5	er (VMware ^o Yi 95% relative l non con	humidity @ (ndensing 2 100 m) Less than	and web D-40°	
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ARMOIRES DE BATTERIE

Number & type of batteries	6 x 12V9Ah	8 x 12V9Ah	12 x 12V9Ah	32 x 12V9Ah	40 x 12V9Ah
Dimensions - D x W x H (mm)	397x 145 x 220	397 x 145 x 220	421 x 190 x 318	442 x 190 x 688	442 x 190 x 688
Net weight - kg (empty battery bank)	22	27	42	95	115
Reference	67277	67279	67281	67283	67284

S models are long-autonomy UPS devices without internal batteries. E4 LCD Pro UPS devices from 1k to 3k VA are also available in 110V (LV) - Refer to our sales contacts.



Communications solutions and remote management

USB & RS232, SNMP & EPO communication ports

- Software :
- Simple user interface • UPS startup and shutdown
- programming · Data and events record enabling daily maintenance
- E-mail messaging to manage UPS status . at all times via the local network
- Free download from the website

Package content

- 1 UPS
- 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

Options

Désignation	Réf
SNMP Card	61424
Dry contacts card	61454
RS 485 card	61439
BMe 1 IEC 1 to 3k	61440
BMe 1 FR 1 to 3k	61441
Additional battery banks	See chart
EMD detector	61452
External isolation transformer	NC

Warranty

BRANTY 2 YEAR

2-year warranty against GARANT manufacturing defects under normal conditions and compliance with precautionary measures.

Warranty to be taken out on our website within 10 days of purchase.



Infosec Communication

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