

L'Énergie Sans Limite ! Safe Energy for Life !

Networks & critical applications, industrial environments

On Line Double Conversion Rack-mount UPS. The ideal solution to effectively protect your critical systems and industrial environments. The E6 LCD RT EVOLUTION range relies on microprocessor control technology intended in

particular for users of critical systems that require reliability, availability and

high performance at the same time (telecommunications equipment, critical



High Performance and reliability

E6 LCD RT Evolution from 1 to 3 kVA

E6 LCD RT Evolution offers your connected devices a high level of protection against overvoltage, overload and short-circuits:

industrial applications, etc.).

- Output power factor of 0.9
- Up to 3 operating modes: Normal, Eco and Advanced Eco (efficiency up to 98%)
- Programmable outlets enabling different groups of loads to be easily and independently controlled. (models up to 3 kVA)
- Connector for emergency stop EPO/CPAU function ensuring the safety of personnel and equipment in the event of an emergency





On Line Double Conversion Technology



Rack/Tower convertible



Redundant parallelizable*





Remote control software



Extended backup time possible

* see models concerned below

💿 Compatible design

The practical and versatile E6 LCD RT Evolution is designed for simple installation. Its compact 2 in 1 design fits easily into a variety of environments: horizontally, in a patch bay with attachment brackets (included) or vertically in «tower» with its base (included). A reinforcing attachment (rack kit) option is recommended to secure UPS devices in unequipped patch bays.

The most reliable of technologies

The On Line Double Conversion technology delivers a perfect sinewave output current and provides thorough and effective protection of critical devices.

Parallel installation

Essential advantages

E6 LCD RT Evolution, an ideal solution for data centres from 5 kVA upward, can connect up to 3 UPS devices in redundant parallel mode (N+X) and thus increase the capacity up to 30 kVA.



- Warm swappable batteries enable an uninterrupted supply to critical and key loads during maintenance work
- Audible and visual alarms to warn in event of a problem
- Cold start function if there is no mains power
- UPS automatic restart when mains power restored

www.infosec-ups.com

AVANTAGES

• Power factor of 0.9

- Optimal output power factor : 0.9 (NB: 0.8 for models from 1 to 3 kVA)
- High performance
- Efficiency for critical applications

Energy Saving ECO Mode



Efficiency of up to 92% from 1 to 3 kVA and 96% for powers from 5 to 10 kVA reduce energy consumption and costs. This operating mode delivers a static bypass power supply and offers timely return to on-line double conversion if required. The E6 devices from 1 to 3 kVA also have an Advanced Eco mode that provides up to 98% efficiency.

User-friendly LCD display

- Accurate and user-friendly LCD screen displays status and parameters in real time
- Intuitive and multi-directional : allows both Tower and Rack-mount
 Potating front papel LCD display : gives direct papers to LIPS
- Rotating front panel LCD display : gives direct access to UPS settings (adjusting output voltage...)
- Simple programming from the front panel LCD screen enables the frequency to be set to 50 or 60 Hz.



LCD Rack Display E6 LCD RT Evolution 1000 VA

Overload protection

- Protection of internal power components
- prevention of connection errors.
- reliability : automatic control of loads, power supply and UPS internal operation

Communication

- USB or RS 232 ports enable communication between the UPS and the various stations and IT servers they are protecting
- SNMP agent optional

EPO emergency stop control

• This function ensures the safety of personnel and equipment in the event of fire or any other emergency situation by initiating a total and immediate shutdown of the UPS.



Cold start function

• It enables an emergency situation involving a total power cut to be overcome by starting the UPS using batteries if there is no mains power supply.

Batteries

Adapted battery cabinets

Other battery cabinets can be added to increase backup time.



Intelligent battery chargers to optimise battery performance

A battery charger from 1 to 3 kVA with 2 levels reduces charging time and adjusts the charging voltage according to the outside temperature to increase the lifetime of batteries and thereby generate energy savings.

Advantages of models from 1 to 3 kVA



Programmable outlets

Programmable outlets allow users to easily control different load groups separately. It will therefore be possible to increase the backup time on the most strategic and vital hardware, during a power outage, by stopping non-critical hardware connected to programmable outlets. These outlets are easy to manage via the LCD display and/or Infopower software.

Warm swappable batteries

The E6 LCD RT EVOLUTION, equipped with a practical and versatile battery system, gives the user the opportunity to replace batteries without stopping the UPS and consequently without interrupting the power supply to critical and vital loads.

COMMUNICATION

Communication software

- InfoPower control software (supplied as standard)
- If there is no power : the UPS close the files automatically and in doing so save data from all the PCs in a network
- The communication software offers a graphic interface to view system status, various measurements, events log, etc.

Advantages of models from 5 to 10 kVA



Parallel installation:

option to connect up to 3 UPS devices in redundant parallel mode (N+X)

Battery chargers:

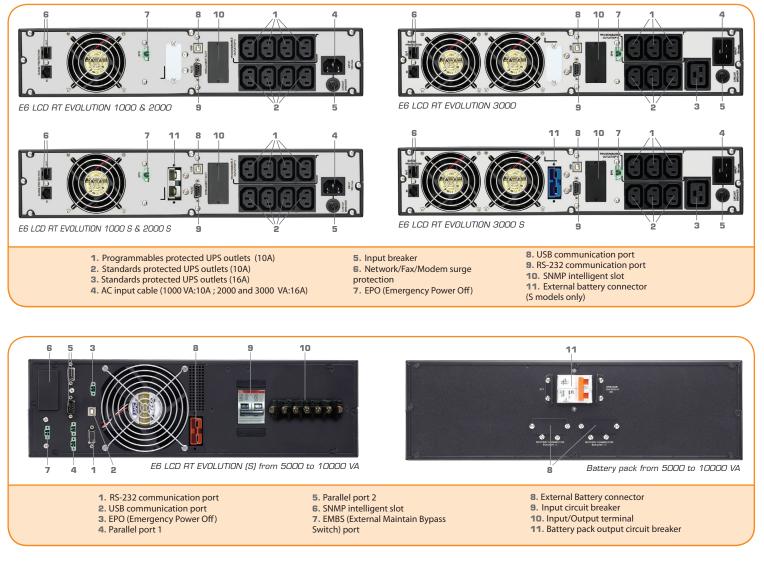
UPSs upward of 5 kVA are fitted with extendable chargers with 3 levels optimising battery performance as well as their recharge time and extending their useful life even further. In addition, due to an extendible design, a charger can be connected in parallel as needed, thereby offering a greater battery charge capacity.





CONNECTION

• A connector tailored to industrial environments



OPTIONS

SNMP I Pro agent $oldsymbol{O}$

The use of SNMP agent with E6 LCD RT EVOLUTION UPS devices makes it easier to manage the UPS due to its many special features:

- Connection to the Ethernet network and identification by IP address
- (random or fixed)
- Low battery detection.
- Configuring and programming switch-off and

restarts of the system on a weekly (or other) basis

- UPS configuration locally or remotely.
- Self-diagnosis of the UPS devices while operating.
- Automatic shutdown according to pre-
- defined priorities on network PCs.
- Sending warning messages to users of the network / mail / GSM, etc.
- Events log.

Backup extensions

Opportunity to increase battery power for unstable or highly disrupted environments. The S versions A REAL PROPERTY AND A REAL (extended backup time) are delivered without an internal battery but with external battery packs.

💿 Rack kit

Enables securing to a patch bay



• AS400 dry contact card

The AS400 communication card supplies dry contacts to feedback alarms from your UPS (e.g. centralized technical management).

Depending on the applications, dry contacts may normally be open or closed.

Isolation Transformer

Isolution Transpormer provides isolation between the input and output current.



• External Maintenance bypass (BMe) for E6 LCD RT EVOLUTION UPS devices from 1 to 10 kVA

 Provides continuous power to connected equipment during maintenance of the UPS via a rotary switch.

- Provides a large number of outlets for extended use.
- Rack or Tower model depending on the working environment (1 to 3 kVA).
- Simple installation (plug and play for models from 1 to 3 kVA).
- Available for all UPS devices from 1 to 10 kVA.



TECHNI			E6 LCD Fundation 4000	6 LCD Evolution 2000	6 LCD Evolution 3000	6 LCD Evolution 5000	6 LCD Evolution 6000	6 LCD Evolution 8000	6 LCD Evolution 10k	
	CTERISTICS	5	RT (S)	RT (S)	RT (S)	RT (S)	RT (S)	RT (S)	RT (S)	
GENERAL CHA	ARACTERISTICS				Onli	ne Double Conve	arcion			
Power (VA)			1000 VA 900 W	2000 VA 1800 W	3000 VA 2700 W	5000 VA 4500 W	6000 VA 5400 W	8000 VA 7200 W	10000 VA 9000 W	Evolution
Power (W)	Long Backup time (S)		900 W 900 W	1800 W	2700 W 2700 W	4500 W	5400 W	7200 W	9000 W 9000 W	
Power factor	Standard Long Backup time (S)		0,9						From 1 to 10 kVA	
PHYSICAL CH	ARACTERISTICS									
Dim. D x W x H (mm) - UPS		415 x 440 x 88 515 x 440 x 88 635 x 440 x 88 580 x 440 x 133 (3U) 745 x 440 x 133 (3U) (2U) (2U) (2U) (2U) 745 x 440 x 133 (3U)								
Standard	Dim. D x W x H (mm) - Battery bank					645 x 440 x 133 (3U) 645 x 440 x 133 (3U)			Package content	
	Net weight (kg) :		12,9	20,6 28		17 + 57		20 + 63		-
Long Backup	Backup Dim. D x W x H (mm) -		415 x 440 x 88 515 x 440 x 88 635 x 4		635 x 440 x 88		x 133 (3U)	745 x 440 x 133 (3U)		- 1 UPS - 1 USB cable
time (S) UPS Net weight (kg)		(2U) (2U) (2U) 8,6 11,3 16			17 20			- 1 RS 232 cable		
TECHNICAL IN	NPUT CHARACTERIS								 1 input cable (1 to 3 kVA models) 4 IEC 10A output cable (1 to 3 kVA models) 	
Low Line transfer 110 V*			80 VAC / 70 VAC / 60 VAC / 55 VAC +/- 5%							- 2 19" Rackmount Bracket
Low voltage	percentage : 100%-	160 VAC / 140 VAC / 120 VAC / 110 VAC +/- 5% 176 VAC / 154 VAC / 132 VAC / 110 VAC +/- 2%						- 1 floor standing system - 1 user manual		
range	80% / 80%-70% / 70%-60% / 60%-0%)							- Infopower Software		
	Low Line comeback 230 V		85 VAC / 75 VAC / 65 VAC / 60 VAC +/- 5% - 170 VAC / 150 VAC / 130 VAC / 120 VAC +/- 5% 186 VAC / 164 VAC / 142 VAC / 120 VAC +/- 2%					- 2 cables for parallel ports (> 5kVA)		
High voltage	High Line transfer	High Line transfer 230 V		150 VAC +/- 5% - 300 VAC +/- 5% 300 VAC					- 1 battery cable (> 5kVA)	
range	High Line comeback 230 V		140 VAC +/- 5% -							
	Frequency range			290 VAC +/- 5% 290 VAC 50 Hz: 40 Hz ~ 70 Hz 50 Hz: 46 Hz ~ 54 Hz or 60 Hz: 56 Hz ~ 64 Hz					64 Hz	Options
Phase Power factor			(Single phase 0,99 at 100% loa	d	Single phase 0,99 at 100% load			options	
TECHNICAL O	UTPUT CHARACTERIS								- Rack kit (Ref : 61429) - SNMP I Pro card (Ref : 61156)	
Voltage				/ 115 / 120 / 127 8 / 220 / 230 / 24		200 / 208 / 220 / 230 / 240 VAC			- SNMP reformed (Ref : 61142)	
AC voltage regulation (Batt mode) Frequency range (Synchronized range)			+/- 1% 50 Hz : 47 ~ 53 Hz or 60 Hz : 57 ~ 63 Hz			+/- 1% 50 Hz : 46 Hz ~ 54 Hz or 60 Hz : 56 Hz ~ 64 Hz				- Dry contact card (Ref : 61454) - RS 485 card (Ref : 61439)
Frequency range (Batt mode) Current crest ration			50 Hz +/- 0,2 Hz or 60 Hz +/- 0,2 Hz 5 : 1 (max)			50 Hz +/- 0,1 Hz or 60 Hz +/- 0,1 Hz			- External Maintain Bypass switch	
Harmonic distorsion			<= 2% THD (linear load);			3 : 1 (max) <= 2% THD (linear load);			Model Ref	
Transfer time			<= 4% THD (batt mode before shut down) 0 ms			<= 4% THD (batt mode before shut down) 0 ms			External bypass RM-IEC 61442	
Waveform	Inverter to Bypass			4 ms (Typical)			0 ms Pure sinewave			External bypass RM-FR 61443
Output outlets	Output outlets IEC standards / programmables			4 (10A) / 4 (10A) / 3/3 (10A) + 1 standard			Termin	al board		External bypas E6 5 to 10k 61444
			4 (10A) 4 (10A) (16A) (16A)						- Isolation transformer	
EFFICIENCY AC mode			87% 88% 89% 90%						Model Ref	
Battery mode			87% 85%	89% 87%		88%			Isolation transformer for 5 67146 and 6 kVA	
Eco mode RATTERV			92% 96%							Isolation transformer for 8 67147
BAILERY Recharging voltage			24 Vdc 48 Vdc 72 Vdc 240 Vdc 240 Vdc							and 10 kVA
Standard model	Standard model Typical recharge time		4 hours recover to 90% capacity			7 hours recover to 90% capacity capacity			- Additional Battery banks - see table	
Charging current (max) Backup time		ix)	1A 1A 1A From 5 to 30 minutes depending on the connected load							
Long backup	Typical recharge time	Depending on the capacity of external batteries								
time model (S)	Charging current (ma	1A, 2A, 4A or 8A 4A							Warranty	
LCD screen	Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicator.							Two-year warranty against		
Alarms		Battery mode, low battery, overload, fault							manufacturing defects	
MANAGEMEN	IT / COMMUNICATIO	IN				compliance with precautionary measures.				
Communication			USB & RS232 port and Infopower included software (support Windows family, Linux, Unix and MAC)							Warranty to be taken out on www.infosec-ups.com within 10 days of
Parallel connection			Optional SNMP I Pro : Management system through SNMP software (VMware [®] compatible) and web browser - Parallel port							purchase.
ENVIRONMEN				-		1	Parali	lei port		
Ideal environme			20 - 90% re	lative humidity	@ 0-40° non	0.05%	alativa humiditi	v ⊜ 0,40° non cor	donsing	
Operating Altitude			condensing 0 - 95% relative humidity @ 0-40° non condensing Up to 1000 m above sea level (> 1000 m 1% deterioration for every 100 m)							
Noise level			Less than 50dBA @ 1 meter 163 W / 257 W / 416 W /			Less than 58dBA @ 1 meter Less than 60dBA @ 1 meter			Maintenance contract	
Heat dissipation	n max - LV (110 V)		556,31 Btu/h 141 W /	877,13 Btu/h 256 W /		- 600 W /	- 600 W /	- 600 W /	- 600 W /	A Maintenance contract is highly recommended: contact hotline@infosec.fr
Heat dissipation max - HV (230 V)			481,11 Btu/h	873,5 Btu/h			2047,8 Btu/h		2047,8 Btu/h	recommended. condet notific@iniosec.it
NORMS										
Standard EMC (Electromagnetic compatibility)			CE RoHS EN 62040-2 : 2006			CE RoHS, cTUVus EN 62040-2 : 2006				
Low voltage (Safety)			EN62040-1 : 2008 EN62040-1 : 2008, UL 1778/R:2006;CSA C22.2 NO.107.3-05/R:2006							
SALES INFO Warranty		2 years						UPS SYSTEM		
PN - Standard versions PN - Long backup time version (S)		67113 67114 67115 67325 67326 67327 67328						Infosec Communication		
* LV (110V) and HV (230V) products are different. Reduction			67116 67117 67118 67123 67124 67125 67126 of the power down to 95% of (puissance nominale) when the output current is adjusted at 115V. Reduction of tuptut current is adjusted at 110V. Reduction of the power down to 80% of (puissance nominale) 67126 67126 67126						15, rue du Moulin	
	90% of (puissance nominale) urrent is adjusted at 100V, 200		output current is	adjusted at 110	V. Reduction of t	he power down t	o 80% of (puissa	ance nominale)		44880 SAUTRON - FRANCE
		E6 LCD	EG	LCD	E6 LCD	E6 LCD Evolutio	n <u>EG LC</u>	D Evolution		Sales Contact
BACKUP MO		Evolution 10	00 RT Evolution	2000 RT Evol	ution 3000 RT	5000 / 6000 R	T 8000	0 / 10k RT		Tel : 02 40 76 11 77 sales@infosec.fr
Dimensions - [Net weight (k	D x W x H (mm)	515 10.2	5 x 440 x 88 (2U) 10		(440 x 88 (2U) 12.1	640 9	x 440 x 88 (2U)	13		

nark of Infosec Communication. All other trademarks or registered trademarks belong to their respect n may vary depending on the temperature, battery condition and peripherals added. UPS are part of ele binding. Specifications are subject to change without prior notice. Backup time is only a guide: actu ents category. At the end of their lives, they have to be collected separately. 04 17 AA 80 111 82

13

65

67137

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PN

CE

Net weight (kg) - (empty)

Rolls

Net weight (kg) - (avec batteries)

10.2

20.6

67402

are n equid

10.3

31.1

67406

ion SAS, all

12.1

43.3

67409

59

67136