

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

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



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
 Detating front range LOD displayer gives direct assess to LIDC
- 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:

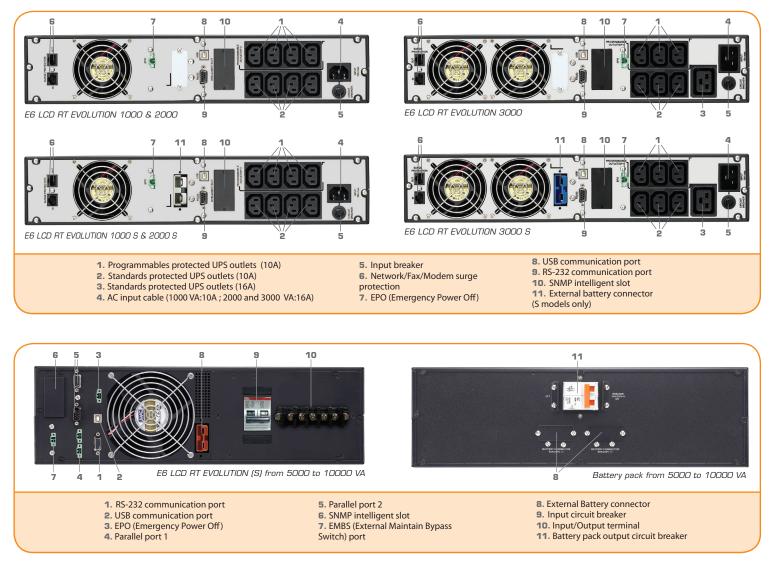
UPSs upward of 5 kVA are fitted with extendable chargers with 3 levels optimising battery performance as well as their recharge time and extending their useful life even further. In addition, due to an extendible design, a charger can be connected in parallel as needed, thereby offering a greater battery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





CONNECTION

• A connector tailored to industrial environments



OPTIONS

SNMP agent

lacksquare

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
- 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.
- network / mail / GSM, etc.
- Events log.

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Backup extensions

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

Rack kit

Enables securing to a patch bay







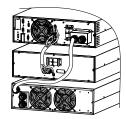
• AS400 dry contact card

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 maintain bypass switch (EMBS) 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.
- \bullet Rack or Tower model depending on the working environment (1 to 3 kVA).
- \bullet Simple installation (plug and play for models from 1 to 3 kVA).
- Available for all UPS devices from 1 to 10 kVA.



	TERISTICS	•	EVOLUTION 1000 (S)	EVOLUTION 2000 (S)	EVOLUTION 3000 (S)	EVOLUTION 5000 (S)	EVOLUTION 6000 (S)	EVOLUTION 8000 (S)	EVOLUTION 10k (S)
	RACTERISTICS								
Technology Power (VA)			1000 VA	2000 VA	3000 VA	ne Double Conv 5000 VA	6000 VA	8000 VA	10000 VA
Power (W)	Standard Long Backup time (S)		900 W 800 W	1800 W 1600 W	2700 W 2400 W	4500 W 4500 W	5400 W 5400 W	7200 W 7200 W	9000 W 9000 W
Power factor	Standard		800 W	0,9	2400 W	4300 W),9	9000 W
	Long Backup time (S)			0.8					
PHYSICAL CHA	RACTERISTICS								
Dim. D x W x H (mm) - UPS		415 x 440 x 88 (2U)	515 x 440 x 88 (2U)	635 x 440 x 88 (2U)	580 x 440 x 133 (3U)		668 x 440 x 133 (3U)		
Standard	Dim. D x W x H (mm)	Dim. D x W x H (mm) -		-	-	580 x 440 x 133 (3U)		580 x 440 x 133 (3U)	
	Battery bank Net weight (kg) :		12,9	20.6	28	17 + 57		20 + 63	
	UPS + Battery bank Dim. D x W x H (mm)		12,9 415 x 440 x 88		20 635 x 440 x 88		_		
Long Backup time (S)		(2U)	(2U) (2U) (2U) 580 x 440		17 20 668 x 440 x 133 (3U)				
TEOUNIOAL IN	Net weight (kg)		8,6	11,3	16	1	/		20
TECHNICAL IN	PUT CHARACTERIS					1			
	Low Line transfer (based on load	110 V*	80 VAC / 70	VAC / 60 VAC / 5	5 VAC +/- 5%			-	
Low voltage	percentage : 100%- 80% / 80%-70% /	230 V*	160 VAC / 140 VAC / 120 VAC / 110 VAC +/- 5%			176 VAC / 154 VAC / 132 VAC / 110 VAC +/- 2%			
range	70%-60% / 60%-0%)	110 V	85 VAC / 75 VAC / 65 VAC / 60 VAC +/- 5%						
	Low Line comeback	230 V		VAC / 65 VAC / 6 VAC / 130 VAC /		186 V/	AC / 164 VAC / 14	- 12 VAC / 120 VAC	+/- 2%
High voltage	High Line transfer	110 V 230 V		150 VAC +/- 5% 300 VAC +/- 5%			300	VAC	
High voltage range	High Line comeback	110 V	140 VAC +/- 5% -						
Frequency range	-	230 V	50	290 VAC +/- 5% Hz : 40 Hz ~ 70		50 Hz	: 46 Hz ~ 54 Hz (or 60 Hz : 56 Hz ~	~ 64 Hz
Phase Power factor				Single phase 0,99 at 100% loa	d			e phase 00% load	
	TPUT CHARACTERIS	STICS	11	0,22 at 100% 10a	u	1	U,37 d[]	007010au	
			[110	/ 115 / 120 / 127	VAC]*		200 / 201	(220 / 2 /	
Voltage		or [208 / 220 / 230 / 240 VAC]			200 / 208 / 220 / 230 / 240 VAC				
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			
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 3 : 1 (max)			lz	
Current crest ration Harmonic distorsion		<= 2% THD (linear load);			<= 2% THD (linear load);				
Line mode to battery mode		<= 4% THD (<= 4% THD (batt mode before shut down) 0 ms			<= 4% THD (batt mode before shut down) 0 ms			
Transfer time Waveform	Inverter to Bypass			4 ms (Typical)		Pure sinewave	0	ms	
	C shand-ula (4 (10A) /	4 (10A) /	3/3 (10A) +		-	-16 1	
output outlets l	EC standards / progra	inmables	4 (10A)	4 (10A)	1 standard (16A)		Iermin	al board	
EFFICIENCY									
AC mode			87%	88%	89%			0%	
Battery mode Eco mode		85% 86% 87% 92%			<u>88%</u> 96%				
BATTERY									
	Battery type		244	12 V / 9 AH	70.17		/ 7 AH		/ 9 AH
	Recharging voltage Number		24 Vdc 2	48 Vdc 4	72 Vdc 6	20	Vdc)**	2) Vdc 0**
Standard model	Typical recharge time		4 hours recover to 90% capacity			over to 90% acity		over to 90% acity	
	Charging current (ma	x)		1A			1	IA	
Long backup	Backup time Typical recharge time			Fro		es depending or the capacity of e			
time model (S)	Charging current (ma			1A, 2A, 4A or 8A				1A	
DISPLAY						_			
	MC			Load level, Batte	ry level, AC mod	e, Battery mode,	Bypass mode, a	nd Fault indicato	ır.
AUDIBLE ALAR Battery mode	61VI				Co	ding every 4 co	onds		
Battery mode Low battery		Sounding every 4 seconds Sounding every second							
Overload Fault						ling twice every ntinuously sound			
	T / COMMUNICATIO	N							
		-		ι	JSB & RS232 port	t and Infopower	included softwa	re	
Communication		(support Windows family, Linux, Unix and MAC) Optional SNMP I : Management system through SNMP software (VMware compatible) and web browser							
Parallel connecti	on		- Spalonal S	-		- sgir ontini solti		el port	
ENVIRONMEN	T								
	t		20 - 90% re	lative humidity condensing	@ 0-40° non	0 - 95%	relative humidity	y @ 0-40° non co	ndensing
Ideal environmen	de			Up to 1000 r		el (> 1000 m 1% o			10.4
Operating Altitud			Less 163 W /	than 50dBA @ 1 257 W /	meter 416 W /	Less than 580	BA @ 1 meter	Less than 600	dBA @ 1 meter
Operating Altitu Noise level	man 11/ (440.10		556,31 Btu/h	877,13 Btu/h	1419,80 Btu/h 348 W /	- 600 W /	- 600 W /	- 600 W /	- 600 W /
Operating Altitu Noise level	max - LV (110 V)				1 348 VV /				
Operating Altitud Noise level Heat dissipation	max - LV (110 V) max - HV (230 V)		141 W / 481,11 Btu/h	256 W / 873,5 Btu/h	1187,41 Btu/h	2047,8 Btu/h	2047,8 Btu/h	2047,8 Btu/h	2047,8 Btu/h
Operating Altitue Noise level Heat dissipation Heat dissipation			141 W /			2047,8 Btu/h	2047,8 Btu/h	2047,8 Btu/h	2047,8 Btu/h
Operating Altitue Noise level Heat dissipation Heat dissipation NORMS Standard	max - HV (230 V)		141 W / 481,11 Btu/h	873,5 Btu/h CE RoHS	1187,41 Btu/h	2047,8 Btu/h	CE RoHS	5, cTUVus	2047,8 Btu/h
Heat dissipation	max - HV (230 V) gnetic compatibility)		141 W / 481,11 Btu/h	873,5 Btu/h	1187,41 Btu/h		CE RoHS EN 6204	5, cTUVus 0-2 : 2006	2047,8 Btu/h
Operating Altitur Noise level Heat dissipation Heat dissipation NORMS Standard EMC (Electroma Low voltage (Saf	max - HV (230 V) gnetic compatibility)		141 W / 481,11 Btu/h	873,5 Btu/h CE RoHS EN 62040-2 : 200	1187,41 Btu/h		CE RoHS EN 6204	5, cTUVus 0-2 : 2006	
Operating Altitud Noise level Heat dissipation Heat dissipation NORMS Standard EMC (Electroma	max - HV (230 V) gnetic compatibility) ety)		141 W / 481,11 Btu/h	873,5 Btu/h CE RoHS EN 62040-2 : 200 EN62040-1 : 200	1187,41 Btu/h	EN62040-1 : 200	CE RoHS EN 6204 08, UL 1778/R:200	5, cTUVus 0-2 : 2006 06;CSA C22.2 NO	

LCD-RT Evolution rom 1 to 10 kVA

ackage content

- UPS
- USB cable
- RS 232 cable
- input cable (1 to 3 kVA models)
- IEC 10A output cable (1 to 3 kVA models)
- 19" Rackmount Bracket
- floor standing system
- user manual
- nfopower Software
- cables for parallel ports (> 5kVA)
- battery cable (> 5kVA)

ptions

- ack kit (Ref : 61429)
- NMP card (Ref: 61424)
- Pry contact card (Ref : 61454) S 485 card (Ref : 61439)
- xternal Maintain Bypass switch

Model	Ref
External bypass RM-IEC	61442
External bypass RM-FR	61443
External bypas E6 5 to 10k	61444

dditional Battery banks

ntil 30 minutes backup time depending on connected load)

Model	Ref
BB E6 LCD RT E 1000	65390
BB E6 LCD RT E 2000	65392
BB E6 LCD RT E 3000	65394
BB E6 LCD RT E 5000	67136
BB E6 LCD RT E 6000	67136
BB E6 LCD RT E 8000	67137
BB E6 LCD RT E 10000	67137

olation transformer

Model	Ref
Isolation transformer for 5 and 6 kVA	67146
Isolation transformer for 8 and 10 kVA	67147

Narranty

wo-year warranty gainst manufacturing efects under normal onditions and



ompliance with precautionary measures.

Varranty to be taken out on vww.infosec-ups.com within 10 days of urchase.



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www.infosec-ups.com

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when the output current is adjusted at 100V, 200V, 208V. ** Number of batteries can be adjusted from 18 to 20

CE

Rolls

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. 12 14 AA 80 111 41