INFOSEC™
UPS SYSTEM

L'Énergie Sans Limite !
Safe Energy for Life !

Company networks, Service idustries

E3 Pro
From 1000 to 10kVA

E3 Pro UPS are dedicated to the electrical protection of IT networks and loads. They are available in 2 versions: **E3 Pro RM (1U rackmountable UPS)** and **E3 Pro RT (Rack/Tower convertible 2U and 3U UPS).**

High-performance protection

Equipped with On Line Double Conversion technology operated by a micro-processor, the E3 Pro range delivers a totally protected and perfect sine wave current for all your IT networks and loads.
In the event of a power cut, E3 Pro offers up to 30 min. of backup time therefore ensuring uninterrupted service and critical data backup.
Depending on needs and contexts, a battery connector allow to extend backup time thanks to additional battery packs.

Extended backup time

Thanks to its powerful integrated battery charger (3.5 to 6A depending on the model), it is possible to add the required number of battery bank to ensure extended backup time.

An ideal format

E3 Pro range is available in two versions, both designed for easy installation:

- E3 Pro RM 1000 VA UPS is a 1U rackmountable UPS that can be easily integrated in a 19" rackmount server cabinet.
- E3 Pro RT from 1000 to 10k VA is a UPS range designed to easily fit with various environments: horizontally, in a patch bay with attachment brackets (included) or vertically in «tower» with its base (included).

Energy-saving and environmentally-friendly features

- Built-in charger reducing battery charging time and enabling them to be charged to 90% capacity in just 4 hours. In this way, a maximum recharge can be guaranteed between successive power cuts.
- Cold start function enabling emergency start of connected hardware when the UPS is not powered up.
- Automatic restart of E3 Pro when mains power is restored.
- Batteries charge up as soon as there is a power supply.

WARRANTY 2 YEAR ANS GARANTIE

Online Double Conversion technology

Rack/Tower convertible*

Multi-directional LCD control screen

Remote control software

Backup time up to 30 min.**

* RT models
** Depending on the model and connected load

www.infosec-ups.com

AN ADEQUATE SOLUTION FOR ALL SITUATIONS

E3 Pro RT : the Rack/Tower versatile solution

Power factor of 0.9
- Optimal output power factor : 0.9
- High performance
- Efficiency for critical applications

Design flexible
2 in 1 design for ease of use :

Rack position

E3 Pro RT from 1 to 3k VA

Tour position

E3 Pro RT 5-6k VA

User-friendly LCD display
- Accurate and user-friendly LCD screen displays status and parameters in real time
- Rotating LCD display fits in tour postition
- Intuitive front panel LCD display: gives direct access to UPS settings (adjusting output voltage...)

LCD Rack Display
E3 Pro RT from 1 to 3kVA

EPO emergency stop control
This function ensures the safety of workforce personnel and equipment in the event of fire or any other emergency situation by initiating a total and immediate shutdown of the UPS (E3 Pro 5-6-10k RT models).

E3 Pro 1000 RM : the 1U rackmountable solution

1U rackmountable format
E3 Pro 1000 RM can be easily integrated in a 19" rackmount server cabinet thanks to its small vertical footprint (1U).

Indicators
Audible alarms and LED indicators indicate the UPS status.

Advantages of E3 Pro RT models

Extented backup time

E3 Pro RT range is equipped of powerful integrated battery charger to ensure an extended backup time :
- from 1 to 3.5A for RT models from 1 to 3k
- from 1A adjustable in 1/2/4/6A for RT models from 5 to 10k

Until 4 battery bank may be added to the UPS.

Advantage of E3 Pro 1000 RM

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 Infopower software.

OTHER ESSENTIAL ASSETS OF THE E3 PRO RANGE

Communication

Communication ports
E3 Pro UPS are equipped with USB and/or RS 232 ports to allow the communication between the UPS and the different protected IT devices. UPS management is possible thanks to Infopower software.

Infopower software
- UPS included management software
- If there is no power : the UPS automatically shut down applications and saves data from all the PCs in a network
- The communication software offers a graphic interface to view system status, various measurements, events log, etc.

SNMP agent (optional)
A SNMP slot allows the connection of a SNMP agent and the use of the associated software for UPS remote management.
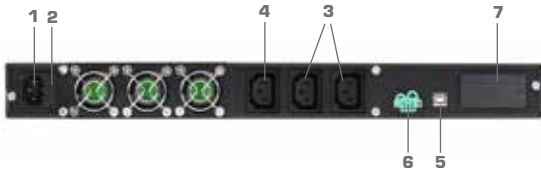
Energy Saving ECO Mode

Efficiency of up to 95% from 1 to 3 kVA reduce energy consumption and costs.

This operating mode delivers a static bypass power supply and allows come back to on-line double conversion if necessary.
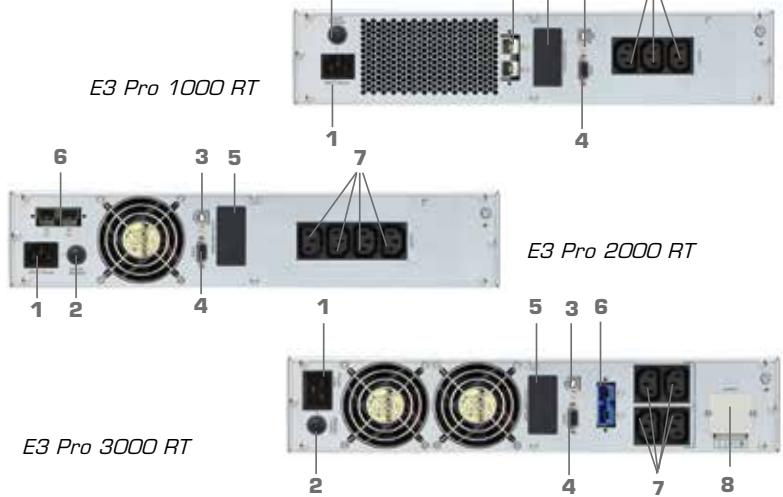
CONNECTION
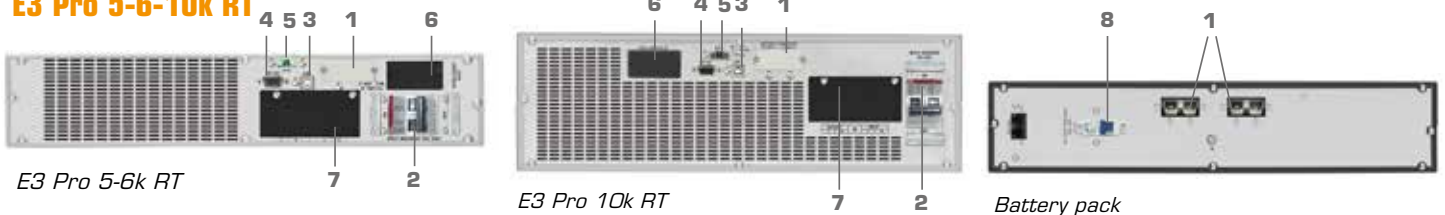
⊙ **A connector tailored for all networks applications**

E3 Pro 1-2-3k RT

E3 Pro 1000 RT

E3 Pro 2000 RT

E3 Pro 3000 RT

1. AC inlet
2. Input breaker
3. USB communication port
4. RS 232 communication port
5. SNMP slot
6. External battery connector
7. Output outlets
8. Output terminal

E3 Pro 1000 RM

1. AC input
2. AC fuse
3. Programmables outlets
4. Output outlets
5. USB communication port
6. Remote control function connector
7. SNMP slot

E3 Pro 5-6-10k RT

E3 Pro 5-6k RT

E3 Pro 10k RT

Battery pack

1. External battery connector
2. Input breaker
3. USB communication port
4. RS 232 communication port
5. EPO connector
6. SNMP slot
7. Input/output terminal
8. Battery breaker

OPTIONS

⊙ Agent SNMP

The use of SNMP agent with E3 Pro 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
- Configuring and programming switch-off and restarts of the system on a weekly (or other) basis
- Local or remote UPS configuration

⊙ Smart charger S

To increase backup time extensions, an external battery charger can be added : 24Vdc for E3 Pro 1k RT, 48Vdc for E3 Pro 2k RT & 72Vdc for E3 Pro 3k RT).

⊙ EMD

This detection device allows, remotly, to monitor the temperature and level of humidity of the E3 Pro environment. This probe works by connecting the SNMP card, and may also used to send dry contacts, making it compatible with the security systems or alarm.

⊙ Rack kit

Stronghter installation in patch bay (recommended from 2000 VA)

⊙ Extented backup time

E3 Pro offers several extensions battery solutions for unstable or highly disturbed environments.

Different types of battery banks are available depending on the type of batteries needed, the sites's configurations and the device to protect : the need for autonomy is more or less important. The large variety of battery bank offer allows to meet most needs.

⊙ RS485 card

RS 485 card can be added as an option : the E3 Pro RM/RT UPS can then communicate with installations using industrial protocols over large distances.

⊙ AS400 dry contact card

The AS400 communication card supplies dry contacts to get feedback alarms from your UPS (e.g. centralized technical management). Depending on the applications, dry contacts may be normally open or normally closed.

⊙ External Maintenance Bypass (BMe) for E3 Pro

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
- MASTER/SLAVE configuration

BMe 1 IEC RM (E3 Pro RT from 1 to 3k VA)

BMe 2 RM (E3 Pro RT from 5 to 10k VA)

TECHNICAL CHARACTERISTICS

GENERAL CHARACTERISTICS

	E3 Pro 1000 RM	E3 Pro 1000 RT	E3 Pro 2000 RT	E3 Pro 3000 RT	E3 Pro 5000 RT	E3 Pro 6000 RT	E3 Pro 10k RT
Technology	On Line Double Conversion						
Power	1000VA/800W	1000VA/900W	2000VA/1800W	3000VA/2700W	5000VA/4500W	6000VA/5400W	10000VA/9000W
Power factor	0.8	0.9					
IEC Output connectors	3 (10A)	4 (10A)		4 (10A) + Terminal	Terminal		

PROTECTION & FILTERING

Output form	Pure Sine Wave						
Protection	Discharge / overcharge / overload						
Input protection	Fuse	Breaker					

PHYSICAL CHARACTERISTICS

	E3 Pro 1000 RM	E3 Pro 1000 RT	E3 Pro 2000 RT	E3 Pro 3000 RT	E3 Pro 5000 RT	E3 Pro 6000 RT	E3 Pro 10k RT
Dimensions - Lxlxh (mm)	438 x 477 x 44 (1U)	438 x 310 x 88 (2U)	438 x 410 x 88 (2U)	438 x 638 x 88 (2U)	UPS: 438 x 530 x 88 (2U) Battery pack: 438 x 688 x 88 (2U)		UPS: 438 x 605 x 133 (3U) Battery pack: 438 x 605 x 133 (3U)
Net weight (Kg)	12,7	12.7	19	29.3	UPS: 15 Battery pack: 55		UPS: 18 Battery pack: 65

INPUT TECHNICAL CHARACTERISTICS

Nominal voltage	110/120 VAC or 220/230/240 VAC*	110/115/120/127VAC or 208/220/230/240 VAC*			208/220/230/240VAC		
Voltage range	55-150 VAC or 110-300 VAC at 50% load* 80-150 VAC or 160-300 VAC at 100% load*	60-145 VAC or 120-300 VAC at 50 % load* 90-145 VAC or 180-300 VAC at 100 % load*			110-300 VAC (based on load at 50%) 176-300 VAC (based on load at 100%)		
Frequency range	40/70 Hz				46Hz ~ 54 Hz or 56Hz ~ 64 Hz		

OUTPUT TECHNICAL CHARACTERISTICS

Voltage - AC mode		110/120 VAC or 220/230/240 VAC*	110/115/120/127 VAC or 208/220/230/240 VAC*			208/220/230/240VAC		
Automatic voltage regulation		± 1%						
Frequency range (Synchronized range)		57 ~ 63 Hz ou 47 ~ 53 Hz	47Hz ~ 53 Hz or 57Hz ~ 63 Hz			46Hz ~ 54 Hz or 56Hz ~ 64 Hz		
Frequency range (Batt mode)		60 Hz or 50 Hz ± 0.3 Hz	50 Hz ± 0,25 Hz or 60 Hz ± 0,3 Hz			50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz		
Harmonic distorsion		≤ 3 % THD (Linear Load) - ≤ 5 % THD (Non-linear Load)	≤ 3 % THD (Linear Load) - ≤ 6 % THD (Non-linear Load)			≤ 3 % THD (Linear Load) - ≤ 5 % THD (Non-linear Load)		
Transfer time	Line mode to battery mode	0 ms	0 ms					
	UPS to Bypass	4 ms (Typical)	0 ms					
Current crest ration		3:1						

EFFICIENCY

	E3 Pro 1000 RM	E3 Pro 1000 RT	E3 Pro 2000 RT	E3 Pro 3000 RT	E3 Pro 5000 RT	E3 Pro 6000 RT	E3 Pro 10k RT
AC mode	86%	88%	89%	90%	92%		93%
Battery mode	83%	83%	87%	88%	90%		91%
Eco mode	92%	90% ~ 93%	92% ~ 94%	93% ~ 95%	-		

BATTERY

Battery charger	Operates when UPS connected to mains						
Cold start (no mains)	Yes						
Charging current	1A	Adjustable from 1 to 3.5A			Adjustable from 1 to 6A		
Battery type & number	6V/9 Ah x 4	12 V/9 Ah x 2	12 V/9 Ah x 4	12 V/9 Ah x 6	12 V/9 Ah x 16		12 V/9 Ah x 20
Recharging time	4 hours to 90% after complete discharge				9 hours to 90% after complete discharge		
Backup time	From 5 to 30 min. depending on the connected load						

INDICATORS & ALARMS

LED (E3 Pro RT)	AC mode, Battery mode, fault	-					
LCD screen display	-	Load level, Battery level, AC mode, Battery mode, Bypass mode, and fault					
Audible alarms	Battery mode, low battery, overload and fault						

BYPASS

Static bypass	Yes						
Manual bypass	Yes (optional External Maintenance Bypass switch)						

COMMUNICATION

Communication ports	USB	USB / RS232					
Software	InfoPower (supports Windows® 2000/2003/XP/Vista/2008, Windows® 7, Linux, Unix et MAC)						
SNMP (Option)	Management system through SNMP software (VMware® compatible) and web browser						

ENVIRONMENT

Ideal environment	20-90°C, 0-50% relative humidity (non condensing)				0-95°C, 0-40% relative humidity (non condensing)		
Noise level	Less than 50dBA @ 1 meter				Less than 55dBA @ 1 meter		Less than 58dBA @ 1 meter
Operating Altitude	Up to 1000 m above sea level (> 1000 m 1% deterioration for every 100 m)						

NORMS

Standard (HV)	CE RoHS						

SALES INFORMATIONS

	E3 Pro 1000 RM	E3 Pro 1000 RT	E3 Pro 2000 RT	E3 Pro 3000 RT	E3 Pro 5000 RT	E3 Pro 6000 RT	E3 Pro 10k RT
Warranty	2 years						
Gencods	3700085 67314 0	3700085 67308 9	3700085 67309 6	3700085 67310 2	3700085 67311 9	3700085 67312 6	3700085 67313 3

* LV (110V) and HV (230V) products are different models.

BATTERY BANKS

	E3 Pro 1000 RT		E3 Pro 2000 RT	E3 Pro 3000 RT	E3 Pro 5000 RT	E3 Pro 6000 RT	E3 Pro 10k RT
Number & battery type	4 x 12V9Ah	8 x 12V9Ah	8 x 12V9Ah	12 x 12V9Ah	16 x 12V9Ah		20 x 12V9Ah
Dimensions - Lxlxh (mm)	438 x 390 x 88		438 x 515 x 88	438 x 635 x 88	438 x 688 x 88		438 x 605 x 133
Net weight - Kg (empty battery bank)	9		9	11	11.2		15
Net weight - Kg (empty battery bank)	20.6	31.1	31.1	43.3	55		65
Gencods	3700085 67402 4	3700085 67403 1	3700085 67406 5	3700085 67283 9	3700085 67187 0		3700085 67189 4

E3 Pro
From 1000 to 10k VA

Communication solutions and remote management

USB & RS232 communication ports

Software :
- Simple user interface
- UPS startup and shutdown programming
- Data and events records for daily maintenance
- E-mail messaging to manage UPS status at any times via the local network

Package content

- 1 UPS
- 1 input cable (1 to 3 kVA models)
- 1 IEC output cable (1 to 3 kVA models)
- 1 USB cable
- 1 floor standing system
- Ears included
- 1 user's manual
- 1 InfoPower software

Options

- SNMP agent (ref: 61424)
- RS 485 card (ref: 61439)
- Rack kit (ref: 61429)
- Dry contact card (réf: 61454)
- External Maintenance Bypass switch (réf. 61442 / 61443 for 1-2-3k RT models and ref. 61445 for 5-6-10k RT models)
- EMD (réf. 61452)
- Smart charger S :

Model	Ref
Smart Charger 24Vdc for E3 Pro 1k RT	61139
Smart Charger 48Vdc for E3 Pro 2k RT	61140
Smart Charger 72Vdc for E3 Pro 3k RT	61141

- Additional battery banks :

Model	Ref
BB E3 Pro 1000 RT	67402 / 67403
BB E3 Pro 2000 RT	67406
BB E3 Pro 3000 RT	67409
BB E3 Pro 5-6k RT	67187
BB E3 Pro 10k RT	67189

Warranty

Two-year warranty against manufacturing defects under normal use conditions and in compliance with precautionary measures.

Warranty to be registered out on www.infosec-ups.com within 10 days of purchase.

INFOSEC UPS SYSTEM

Infosec Communication
4, rue de la Rigotière
44700 ORVAULT - FRANCE
Contact commercial
Tél : 02 40 76 11 77
commercial@infosec.fr

www.infosec-ups.com