



L'Énergie Sans Limite !  
Safe Energy for Life !



## Critical, industrial and medical applications

**NEW**

**E4** TT  
Evolution II + HD  
30 & 40 kVA

The E4 Evolution II + TT HD range is the new three-phase solution designed to protect engines with braking systems such as lifts which have energy regeneration function or frequency converters. It offers all the features needed to ensure maximum security, even in sensitive environments.

### A special protection

The E4 Evolution II + TT HD range is equipped with On Line Double Conversion technology, controlled by microprocessor, and is intended to extend the lifes of motorized equipment such as lifts for example.

These UPS are equipped with an internal resistance bench called «Energy box» which absorbs the current returned by the motorized protected equipment featuring energy regeneration function as :

- Lifts equipped with a regenerative drive system
- Frequency converters and other engine braking system
- Engines with braking system

To chose E4 Evolution II + TT HD ensures the service continuity of the connected equipment and preserves the vital functions of the UPS.



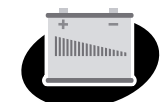
On Line Double Conversion Technology



High Efficiency



Remote control software



Extended backup time available



### Main benefits of the E4 Evolution II + TT HD

**E4 Evolution II + TT HD UPS** are equipped with an ienergy box that makes them compatible with motorized devices including a braking system.

## A RELEVANT ANSWER TO THE MOST DEMANDING NEEDS

### On Line Double Conversion Technology

The E4 Evolution II + TT HD product range is equipped with the On Line Double Conversion with High Frequency Technology, providing the users with the highest security level. The current is constantly delivered by the UPS device, thus guaranteeing a constant voltage level with a perfect stability. Critical applications are therefore supplied with a perfect current as they are independent from the mains input. There is no commutation time and no micro-power shortage.

The output power factor is optimal, reaching 1.

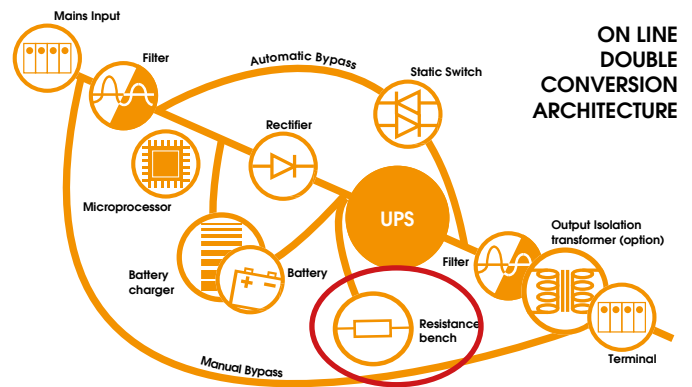
### High output and performance

E4 Evolution II + TT HD ranges combine the best UPS in terms of rectifier, filter, charger, UPS, DS controller to ensure the best possible efficiency and performance. E4 Evolution II + TT HD UPS ensures a high overall efficiency of 94%.

### Extended Backup Time

In order to get extended backup time, battery extension modules can be connected as an option to E4 Evolution II + TT HD.

Depending on the type of installation and equipment to protect (single UPS device or several devices connected in parallel), backup time need may vary. Large and scalable range of battery banks allows to answer most of the needs.



### Optimum Design: Small Footprint

E4 Evolution II + TT HD has been designed with an optimized architecture, allowing to significantly reduce the occupied space of the product. Its internal components being of a smaller size than the average UPS parts, the cabinet of E4 Evolution II TT has been minimized and is distinctly smaller than the average volume of UPS devices of equivalent power.

E4 Evolution II + TT HD can easily adapt to the stocking constraints of small and larger businesses and all types of environment.



## SECURITY AND SERVICE CONTINUITY

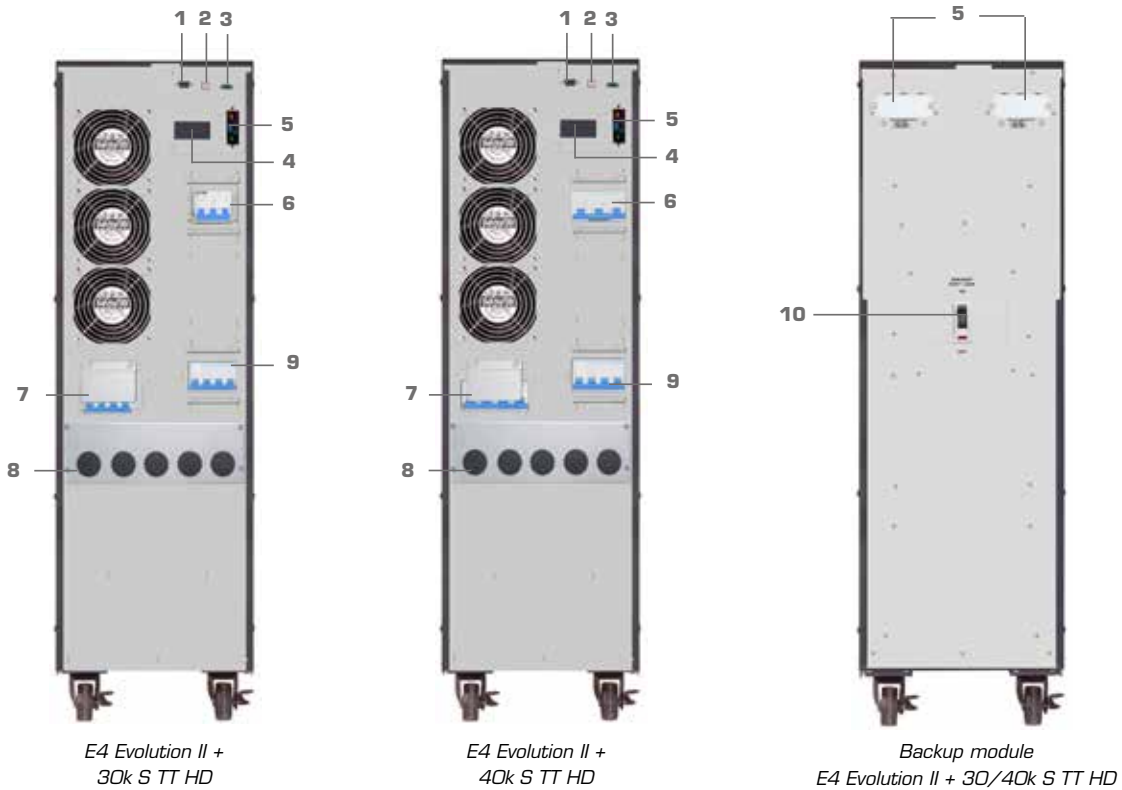
### Easy maintenance

E4 Evolution II + TT HD power system is composed of several power boards installed in parallel that can be switched easily. Maintenance interventions are simplified and safer for the technicians, reducing the overall costs of maintenance operations.

### DSP - Digital Signal Processor

E4 LCD Evolution II TT as a processor dedicated to calculations and signal quality: the DSP has the ability to process a huge amount of information in real time (20 million instructions per second). On one hand, the DSP controls the rectifier and the network current quality and, on the other hand, it controls the output voltage quality thus guaranteeing users exceptional performance in terms of voltage accuracy, efficiency and reliability.

# CONNECTION



- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>1. RS-232 communication port</li> <li>2. USB communication port</li> <li>3. Emergency power off function connector</li> <li>4. Intelligent slot SNMP</li> <li>5. External battery connector</li> </ul> | <ul style="list-style-type: none"> <li>6. Input circuit breaker/switch</li> <li>7. Maintenance bypass switch</li> <li>8. Input / Output terminal</li> <li>9. Output switch</li> <li>10. Bypass input circuit breaker/switch</li> </ul> |
|---|--|

## USER-FRIENDLINESS & COMMUNICATION

### LCD Screen

- Sharp and user friendly; status indicators and real-time parameters information
- Intuitive LCD display on the front panel: direct access to the UPS settings for a quick adjustment 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)



### Remote Controlling through USB & RS232 ports

The USB and RS232 ports allow to use the communication protocols developed for IT infrastructures, data centers and telecommunications networks.

These features enable remote control of the UPS and to alert set in order to obtain real-time information on its functioning status.

The user interface allows to program the shutdown of the connected devices and applications protected by the UPS in order to avoid any information loss, and to prevent from potential damage caused to the machines.

### INFOPOWER SOFTWARE

Designed to simplify remote monitoring of the UPS, InfoPower software is a user-friendly interface for computers allowing to define different settings in case of a power failure, or to monitor the different UPS status

### Communication options

Using an SNMP makes it easier to manage the UPS E4 Evolution II + TT HD.  
2 solutions :

- SNMP I Pro : network management
- SNMP vmMinislot : virtual network management



# TECHNICAL SPECIFICATIONS



	E4 Evolution II + 30K S TT HD	E4 Evolution II + 40K S TT HD
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## GENERAL CHARACTERISTICS

<b>Technology</b>	On Line Double Conversion	
<b>Power (VA)</b>	30kVA	40kVA
<b>Power (W)</b>	30kW	40kW
<b>Power factor</b>	1	
<b>Energy Box</b>	<b>Input voltage</b>	390VDC ~ 410VDC
	<b>Power</b>	6kW

## PHYSICAL CHARACTERISTICS

<b>Dimensions L x W x H (mm)</b>	815 x 300 x 1000	
<b>Net weight (kg)</b>	70*	71*

## INPUT

<b>Nominal voltage</b>	3 x 400 VAC (3Ph+N)
<b>Acceptable voltage range</b>	190-520 VAC (3-phase) @ 50% of load 305-478 VAC (3-phase) @ 100% of load
<b>Frequency range</b>	46~54 Hz or 56~64Hz
<b>Phase</b>	Three phase
<b>Power factor</b>	>=0.99 @ 100% of load

## OUTPUT

<b>Nominal voltage</b>	3 x 360*/380/400/415 VAC (3Ph+N)
<b>Voltage regulation (inverter mode)</b>	± 1%
<b>Frequency Range (Synchronized Range)</b>	46~54Hz or 56~64Hz
<b>Frequency Range (Batt. Mode)</b>	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz
<b>Admissible crest factor</b>	3:1 (max.)
<b>Harmonic distortion</b>	<=2 % THD (charge linéaire) <=4 % THD (charge n°n linéaire)
<b>Transfer Time</b>	<b>Line mode to Battery mode</b> <b>Inverter to Bypass</b>
	0 ms 0 ms
<b>Output form</b>	Pure Sinewave
<b>Output connection</b>	Terminal

## EFFICIENCY

<b>AC mode</b>	94%
<b>Eco mode</b>	97%
<b>Battery mode</b>	93,5%

## BATTERY CHARGER

<b>Battery Type</b>	Depends on the requested backup time
<b>Battery number</b>	
<b>Charge current</b>	

## INDICATORS & ALARMS

<b>LCD Screen</b>	Load level, Battery level, AC mode, Battery mode, bypass mode, and Fault indicator
<b>Audible alarms</b>	Battery mode, low battery, overload and fault

## BYPASS

<b>Static bypass</b>	Yes
<b>Manual bypass</b>	Yes

## MANAGEMENT / COMMUNICATION

<b>Communication via RS-232 / USB port</b>	Support Windows family, Novell, Linux, Mac, FreeBSD
<b>Optional SNMP I Pro</b>	Management system through SNMP software (VMware®, HyperV™ compatible) and web browser
<b>EPO Connector</b>	Yes

## ENVIRONMENT

<b>Operating Temperature and Humidity</b>	0-95 % RH à 0-40°C (sans condensation)	
<b>Noise level</b>	Moins de 60dB@1m	Moins de 70dB @1m

## NORMS

<b>Standard</b>	CE RoHS	
<b>EMC</b>	EN62040-2:2006; EN61000-2-2:2002; EN61000-4-2:2009; EN61000-4; 3:2006+A1:2008+A2:2010; EN61000-4-4:2004+A1:2010; EN61000-4-5:2006; EN61000-4-6:2009; EN61000-4-8:2010	
<b>LVD (Safety)</b>	EN62040-1: 2008+A1:2013	

## SALES INFO

<b>Warranty</b>	1 year	
<b>PN</b>	67635	67636

\*Net weight without batteries

The detailed technical characteristics are subject to change without notice.

	Backup Module 5821 E4 Evolution II + 30K S TT HD	Backup Module 5823 E4 Evolution II + 40K S TT HD
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## PHYSICAL CHARACTERISTICS

<b>Dimensions L x W x H (mm)</b>	815x 250 x 826	
<b>Poids net (kg)</b>	181	209
<b>PN</b>	67479	67481

## Communications solutions and remote management

USB & RS232, SNMP & EPO communication ports

Infopower 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

- UPS equipped with Energy Box
- Backup module
- User guide
- Infopower software
- RS-232 cable
- USB cable
- Battery cable

## Options

Désignation	PN
SNMP I Pro agent	61156
SNMP vm Minislot agent	61142
Dry Contact Card (AS 400)	61454
Isolation transformer	NC
Modbus card	61439
Environment Measure Device (EMD) on SNMP I Pro	61452
Additional Backup module	NC

## Warranty

One-year guarantee against manufacturing defects under normal conditions and compliance with precautionary measures.

Warranty to be registered on the website within 10 days of purchase.



## Infosec Communication

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