



L'Énergie Sans Limite !



Data Centers, Critical applications

Mod3

Mod3 UPS solutions are designed for the electrical protection of critical, high-power sensitive loads that require high modularity. Their modular design allows greater flexibility in terms of power and configuration modes. They are available in single phase, 3-phase in/1-phase out, 3-phase in/3-phase out.

The most reliable of protections

Mod3 UPSs are equipped with **On Line Double Conversion High Frequency** technology. Power is delivered continuously and provides a **better degree of security** thanks to the guarantee of a constant voltage delivered and a total absence of interference. The critical applications to protect are therefore perfectly powered because they are independent from the mains. **Transfer time is zero**, avoiding any micro-cuts.

Redundancy **ensures** optimal **service continuity**. In fact, in the event of a shutdown or maintenance on one of the modules, the load is automatically and instantly distributed over the other available modules: the equipment therefore remains totally protected and powered even with a single UPS module! Thanks to this feature, it is also **easy to increase the UPS' power** by adding 10kVA modules and thus adequately protect a load that would increase in the short or medium term.

Mod3 can be configured with **up to 10 UPSs in parallel** for a maximum power of **100kVA**.

A range with many advantages:

- Available in single phase, 3-phase in/1-phase out, 3-phase in/3-phase out
- On Line Double Conversion **High Frequency** Technology
- The power modules have a **power factor of 1**
- Redundant **power** protection with backup time
- Parallel connection up to 10 UPSs with a **common battery pack**
- Possible installation in **tower or rack version** in 19" cabinet
- **Simplified maintenance** (hot-swappable modules)



Mod3 C 10 kVA



On Line Double Conversion Technology



Redundancy



LCD control screen 5.7"



Remote control software



Configurable for long backup time

FLEXIBILITY AND PERFORMANCE

There are **THREE MODES** for installing Mod3:

- 1 TOWER MODE :**
UPS and backup module are supplied with the required connection kit (C)



Mod3 C 10 kVA



connection kit (C)

- 2 IN RACK MODE:**
UPS and backup module are supplied with the required connection kit (C) and to be installed in a server cabinet.



UPS module Mod3 C 10 kVA



Backup module Mod3 C 10 kVA



- 3 IN A PRECONFIGURED Mod3 C 19U CABINET** allowing the integration of up to 4 modules (UPS / backup module):

- The Mod3 19U cabinet consists of an 5.7" LCD display, 4 slots for UPS modules and/or backup modules and connection kits for connecting each module.
- The connection kit, required to connect the UPS and the backup modules, is already integrated into the Mod3 C 19U cabinet.
- Its patented design allows for hot-adding, swapping and removing the various modules very easily.
- Whether in single phase, 3-phase in/1-phase out 3-phase in/3-phase out, here are the 3 possible configurations of Mod3 C 40/10 (19U):



This 40kVA solution includes:
- Mod3 C cabinet (19U)
- 4 UPS modules



This 20kVA solution includes:
- Mod3 C cabinet (19U)
- 2 UPS modules
- 2 backup modules



This 10kVA solution includes:
- Mod3 C cabinet (19U)
- 1 UPS module
- 3 backup modules

OVERVIEW OF MOD3 UPS



1 5.7" graphic LCD control panel

Multilingual LCD screen to monitor the operation of the UPS.

2 10kVA UPS module

Each UPS module guarantees optimum protection in all circumstances (maintenance, fault).

3 Backup module

The number of backup modules can vary freely according to the backup time needs of the load to be protected. There are 3 models of backup modules (see section "backup modules" for more information).

4 Connection kit

Supplied with the module or in the Mod3 C 19U cabinet, it allows for hot-plugging UPS and backup modules.



CONFIGURATION AND MANAGEMENT OF THE SOLUTION

Locally

The LCD display and control buttons of the Mod3 UPS modules provide simple and effective access to the various key information of the UPS.

Infopower control software can be download for free and allows :

- Automatic closing of files during power outages: safeguarding data on all the computers within a network
- User-friendly graphical interface: quick view of system status, the various metrics, the event history...

Via the network

- The dry contacts relay interface integrated as standard enables remote transmission of information on the status of the UPS or the alarms (for a central technical management system for example).
- The USB or RS 232 port enables the use of IT infrastructure communication protocols, data centers and telecommunications networks.
- An SNMP Modular slot enables the addition of an SNMP agent (optional) in order to manage and control UPS and power supply remotely over the network or the Web.

OPTIONS DE COMMUNICATION

Mod3 controller module

To meet all possible communication needs, this module offers the possibility of having more dry contacts, EPO, RS232, USB and two additional slots for SNMP, Modbus and AS400 cards. It is integrated as standard in the Mod3 C 19U cabinet.

Connection kit

It allows connection of the UPS or a backup module for standalone use (not integrated in a standard bay server 19", integrated as standard in the Mod3 C cabinet (19U)).

Module front panel for rack-mountable cabinet

This front panel allows to hide an empty slot of a cabinet in the absence of a module.

SNMP card for virtual server

Using the SNMP agent facilitates local and multi-site management of the UPS and network power supply owing to the following features:

- Connection to the Ethernet network and identification by IP address
- Shutdown configuration and restart programming of the system on a weekly (or other) basis ...
- Local or remote UPS configuration



SNMP card and minislot vm software solution for virtual network management

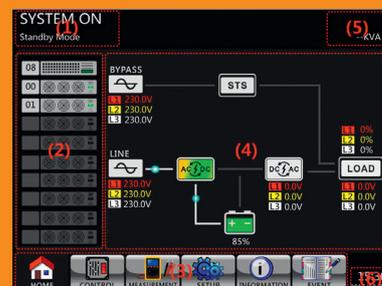
The SNMP vm Minislot agent facilitates network UPS management under virtual environments (vmWare®, Hyper V, etc.). Associated with the UPS Management software solution, it makes it possible to control the restart and shutdown of the virtual servers and their associated equipment.

Temperature sensor

This environmental condition identification sensor relative to the inverter enables remote monitoring of the temperature and humidity of the local UPS. This sensor works by connecting to the SNMP card, and can also receive dry contacts, making it compatible with security and alarm systems (intrusion sensor, for example).

10" screen'

A 10" LCD colour screen is also available for more convenient local control.



BACKUP MODULE

In order to offer long backup-time for demanding environments, 3 external backup modules are available (192V, 240V, 384V) :

For standalone configuration

Backup modules can both be settled in rack mode in a standard 19" cabinet or in tower version (connection kit included with the backup module):



Dimensions HxWxD (mm) (3U)		678 x 418 x 129
192V* / 9Ah	Net weight (kg)	51
	PN	67583
240V* / 9Ah	Net weight (kg)	61
	PN	67584
384V / 5Ah	Net weight (kg)	68.6
	PN	67585

For configuration in Mod3 C cabinet (19U)

Back-up modules can be installed in Mod3 C cabinet (19U) (connection kit included directly in mod3 C cabinet**):



Dimensions HxWxD (mm) (3U)		604 x 418 x 129
192V* / 9Ah	Net weight (kg)	49
	PN	67586
240V* / 9Ah	Net weight (kg)	59
	PN	67587
384V / 5Ah	Net weight (kg)	41
	PN	67588

* The 192V and 240V backup modules are to be used in pairs.

** Backup modules and Mod3 C cabinet (19U) delivered separately

See dimensions of the Mod3 C cabinet (19U) in the table of technical characteristics on page 8.

APPLICATIONS

Data Centers

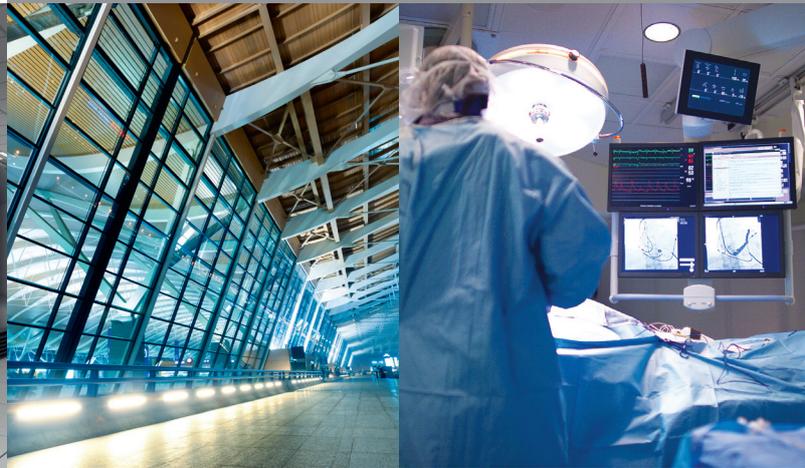
Data processing centers are strategic and essential to the company. Thanks to the age of virtualization they are key players for the companies: their mission is essential and their servers run continuously. Therefore, in order to maintain the competitiveness and performance of these facilities, INFOSEC recommends its **range of modular UPS systems to ensure an unfailing continuity of service**. Infosec's modular solutions enable operators of these treatment centers to **improve the efficiency of their equipment, in order to offer a more secure response to their clients needs**.



Infrastructures

IT infrastructures, now increasingly vital to company function, have an increased security requirement because their operation must be continuous and not suffer any unexpected outage. This is the case for among others health, transport or even communication environments. To meet these demanding requirements, Infosec's modular UPS systems **can protect and ensure a continuous power supply to their sensitive equipment**.

The advantages of **Mod3** are multiple: advanced technologies, redundancy, energy performance and flexibility...



Industrial equipment

Production lines using equipment that cannot endure a power failure, including brownouts, have a critical need of power protection. Industries are also directly affected by the ongoing need to have access to an uninterrupted power supply.

The adaptability of the **Infosec modular range** to all types of loads even the most difficult (inductive, capacitive, non-linear, discharge lamps, induction motors ...) and its high yield make it the **ideal solution to provide power and the continuity of activities and services for all kinds of industrial applications**.



Finance and telecommunications sectors

Through the generalization of online financial transactions, or the growth of telecommunications, these sectors require a secure and reliable power supply to guarantee uninterrupted operations. **Mod3 UPS devices can provide the backup required to avoid forced outages**. In addition the effective communication systems of **this UPS allow 24/7 remote monitoring, ensuring an immediate response in the event of a problem or failure on the network**.



SERVICES & TECHNICAL SUPPORT

Pre-sales and after-sales services provide an appropriate solution to your needs to ensure the durability, reliability and availability of your UPS.



Technical requirements & pre-installation assistance

A needs pre-qualification questionnaire will help validate the technical choices and options selected for each installation configuration. Our technical sales team can be consulted for the most complex issues.



Installation, testing, commissioning

An INFOSEC engineer or an INFOSEC certified installer will come to your site to install and start-up the UPS. A test report would be then provided.



Technical support hotline

The after-sales service can be contacted quickly by phone and/or email to answer any questions or technical queries.



Replacing the batteries

It is important to ensure the proper operation of the batteries which, after a few years of operation must be changed (between 3 and 5 years depending on the room temperature, number of charge and discharge cycles).

The batteries absolutely must be changed by a professional: only an INFOSEC engineer or approved INFOSEC engineer may intervene on request.



Hotline

+33 2 40 76 15 82

hotline@infosec.fr



Technical training

INFOSEC makes technical training available for its partners and customers:

- Training in the use subsequent to on-site commissioning.
- More comprehensive training on all INFOSEC UPS SYSTEM product lines for authorised partners.
- Technical-sales training for sales support and to calculate the size of a UPS according to the facilities to be protected.

TECHNICAL SPECIFICATIONS

Mod3

Module Mod3 10k TT*

Module Mod3 10k TM*

GENERAL CHARACTERISTICS

Technology	On Line Double Conversion	
Phasing	Three-phase input Three-phase output	Three-phase input Single phase output
Power in VA	10,000VA	10,000VA
Power in W	10,000W	10,000W
Power factor	1	

PHYSICAL CHARACTERISTICS

Dimensions L/D x w x H (mm)	UPS without connection kit	604 x 418 x 129 (3U)	
	UPS with connection kit (C)	678 x 418 x 129 (3U)	
Net weight (kg)	UPS without connection kit	20	18.5
	UPS with connection kit (C)	21	20.5

INPUT

Rated voltage	3 x 360VAC/380VAC/400VAC/415VAC (3Ph+N+PE)	
Voltage range	190-520 VAC (3-phase) at 50% load 305-478 VAC (3-phase) at 100% load	
Frequency range	40Hz ~ 70Hz	
Power factor	>= 0.99 @ 100% load	
THDi	< 4% @ 100% linear load	

OUTPUT

Voltage	360VAC/380VAC /400VAC/415VAC (3Ph+N)	208 **/220/230/240VAC (L+N)
Voltage (battery mode)	+/- 1%	
Frequency range (synchronized range)	46Hz ~ 64Hz or 56Hz ~ 64Hz	
Frequency range (battery mode)	50Hz +/- 0.1Hz or 60Hz +/- 0.1Hz	
Crest factor	3 : 1 (max.)	
Harmonic distortion	<= 2% THD (Linear load) ; <= 3% THD (battery mode before shutdown)	
Transfer time	AC mode to battery mode	0ms
	Bypass UPS	0ms
Waveform	Pure sinusoidal wave	

EFFICIENCY

AC mode	94%
Eco mode	97%
Battery mode (peak)	92%

BATTERY

Rated voltage	+/- 192V (12V x 32 batteries)
Maximum voltage	+/- 240V (12V x 40 batteries)
Minimum voltage	+/- 192V (12V x 32 batteries)
Charge voltage	+/- 218V
Recharge time	9 hours at 90% capacity
Charge current	+/- 4A

BYPASS

Static bypass	Yes
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DISPLAY

LCD screen	Charge level, battery level, mains mode, battery mode, bypass mode, fault indicator.
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MANAGEMENT/COMMUNICATION

Communication	USB port, SNMP slot & Infopower software free download (Windows family, Linux, Unix, MAC compatible) SNMP Pro I option: SNMP software management system (VMware compatible®) and Internet browser
EPO connector	Yes

ENVIRONMENT

Humidity	0 to 95% relative humidity @ 0-40°C without condensation
Noise level	less than 55dBA at 1 metre

NORMS

Standard	CE RoHS
Electromagnetic compatibility	EN 62040-2:2006+AC:2006
Low voltage safety	EN62040-1:2008+A1:2013

SALES INFORMATION

Warranty	1 year	
PN models without connection kit	67726	67728
PN models with connection kit (C)	67725	67727

*3-phase in/1-phase versions can be configured as single phase

** Power reduction to 90% of rated power when output voltage is adjusted to 208VAC (C) means connection kit is included

Technical specifications may be subject to change without prior notice.

Contact us for pre-configured solutions in Mod3 C cabinet (19U):

	Mod3 C 40/10 (19U) TT	Mod3 C 40/10 (19U) TM
Dimensions L/D x w x H (mm) Mod3 C 19U cabinet (C)	857 x 443 x 840 (19U)	
Net weight (kg) - Mod3 C 19U cabinet (C) (empty)	72	
References	67729	67730

Communication and remote management solutions

USB communication ports

Software:

- UPS startup and shutdown programming
- Data and events recording enabling daily maintenance
- E-mail messaging service to manage UPS status at all times via the local network
- Free download on the website

Packaging Content

Standard Model Accessories:

- 1 UPS
- 1x USB cable
- 1 RS 232 cable + 1 RS232-USB converter
- 1 Battery Cable
- Rackmount bracket
- 1 user guide

Additional accessories for version (C):

- Base for tower position
- Rack kit
- Parallel cables
- Share cables
- Parallel busbars

Options

Designation	Ref
SNMP Pro I card	61156
SNMP vm Minislot vmWare Board ^{ci}	61142
Connection Kit (UPS Module)	67830
Connection Kit (Back-up Module)	67831
Control Module	67835
10" LCD display ^l	67834
EMD (temperature and humidity sensor)	61452

Warranty

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

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



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