



UPS

Critical applications - Industrial & medical environments

UPS M6Ti range is the most reliable solution for the most critical and demanding equipment. It is the new **three-phase** solution designed to protect the most **strategic** and powerful loads. The M6Ti TX version is fitted with an isolation transformer.



On Line Technology  
Double Conversion

### The ideal solution for sensitive applications

- Industries
- Medical equipment
- Construction & building



Three-phase

### Unrivalled protection

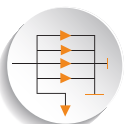
- On Line Double Conversion technology for the most reliable protection
- Power factor of 1 for high efficiency
- Parallels up to 4 UPS for up to 800 kVA of power
- Maximum safety thanks to Dual Input system



High efficiency



M6Ti 180/200 kVA



Parallels up to 4 UPS

### Essential assets

- Equipped with an isolation transformer in the M6Ti TX version to eliminate the risk of electromagnetic interference
- 7" LCD touch screen + 6 LEDs for displaying status and parameter values in real time
- Intelligent, adjustable battery charger to optimise UPS autonomy
- Power Walk-in function for the UPS to limit damage caused by a sudden increase in voltage



Extended autonomy possible



M6Ti TX range

# A reliable, high-performance solution

## The right technology

UPS with **On Line Double Conversion Technology** provide the highest level of **security** for connected equipment. The power is continuously delivered by the UPS, ensuring a **constant** voltage and complete absence of **disturbances**.

Critical applications to be protected are perfectly supplied as they are **independent** of the grid. Therefore, the switching time is zero, thereby avoiding **micro-interruptions**.

The critical applications to be protected are perfectly powered because they are independent of the mains. The switching time is therefore zero, thus avoiding micro outages.

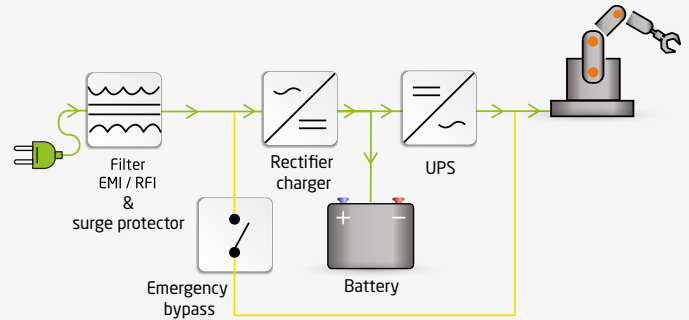
The output power factor is **optimal**, reaching **1**. The microprocessor-controlled UPS provides a wide input voltage range, high input power factor, and low harmonic distortion.

The M6Ti and M6Ti TX ranges ensure :

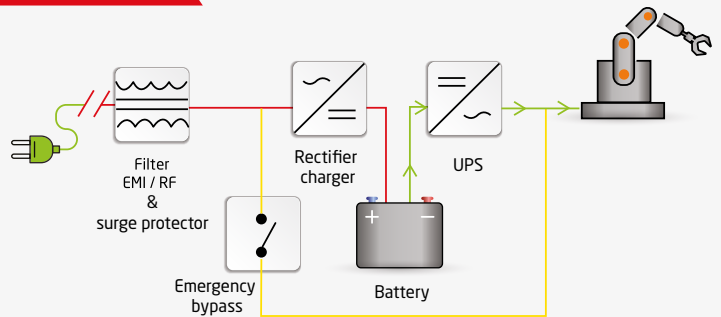
1. Complete **protection** against power supply disturbances, voltage drops, surges, power cuts and interference
2. **High quality power** supply that is clean, stable and uninterrupted, which is essential for sensitive electronic equipment.
3. **High efficiency and performance** thanks to M6Ti, which ensures a high overall efficiency of up to 95.5%

## On Line Double Conversion Technology

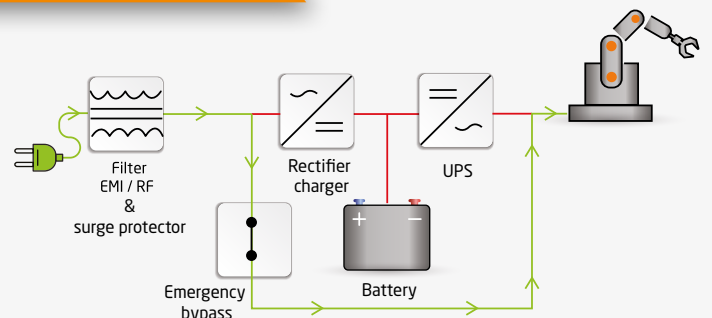
### Sector present



### Absent sector



### Annual maintenance



## The + of M6Ti TX

Equipped with an **isolation transformer**, the M6Ti TX is the ideal solution for the most **disrupted industrial** environments.

Available in UPS ranging from 60 to 200 kVA, the primary role of the isolation transformer is to safeguard the connected electrical load against **electromagnetic disturbances** originating from the UPS.

The use of an UPS with an isolation transformer is especially valuable in environments like **industrial machinery** that require a **stable** and high-quality electrical supply to function correctly and **prevent any production loss**.

# Simplified maintenance

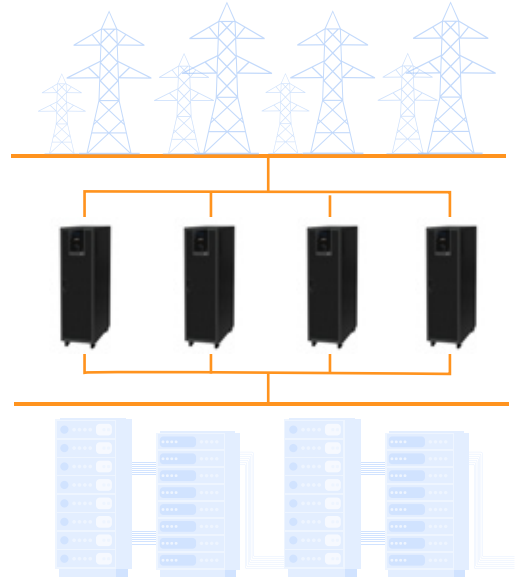
## Parallel connection up to 800 kVA

In order to best meet the **flexibility** and **scalability** requirements of the installation, the M6Ti and M6Ti TX product lines can be configured in parallel.

Up to **4** units can be installed in parallel, thereby increasing power and redundancy for a higher level of security.

The parallel configuration of multiple M6Ti or M6Ti TX UPS not only increases the power capacity of the installation but also maximizes the safety provided to connected equipment.

The M6Ti and M6Ti TX can support a connected load of up to **800 kVA**. Parallel configuration also enables automatic **switchover** to the backup UPS in case of a **malfunction** in one of the UPS.



When module A is out of service  
Module B can always supply a load

M6Ti 100/120 kVA

## Easy maintenance

Maintenance facilitated by :

- A modular design to meet every need.
- Front maintenance of the UPS : simplified module replacement (for M6Ti 60/100 and 120 kVA).
- Independent maintenance from one power module to another

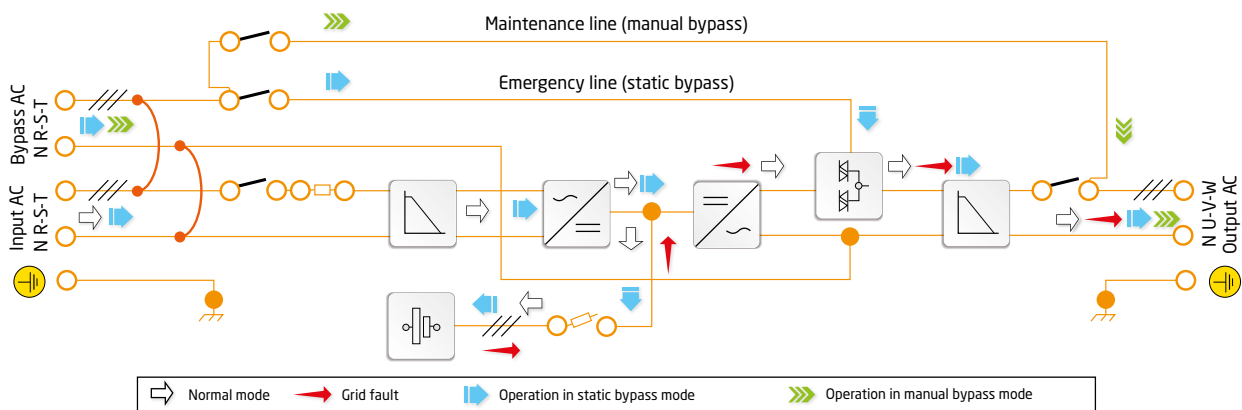
Even if one module is out of service, the loads will **automatically switch** to another operational **module**.

## Power Walk-in Function

The Power Walk-in Function gradually supplies power to the connected load after a power interruption by smoothly transitioning from battery mode to utility mode. It is especially useful for high-consumption loads that could disrupt the overall electrical supply.

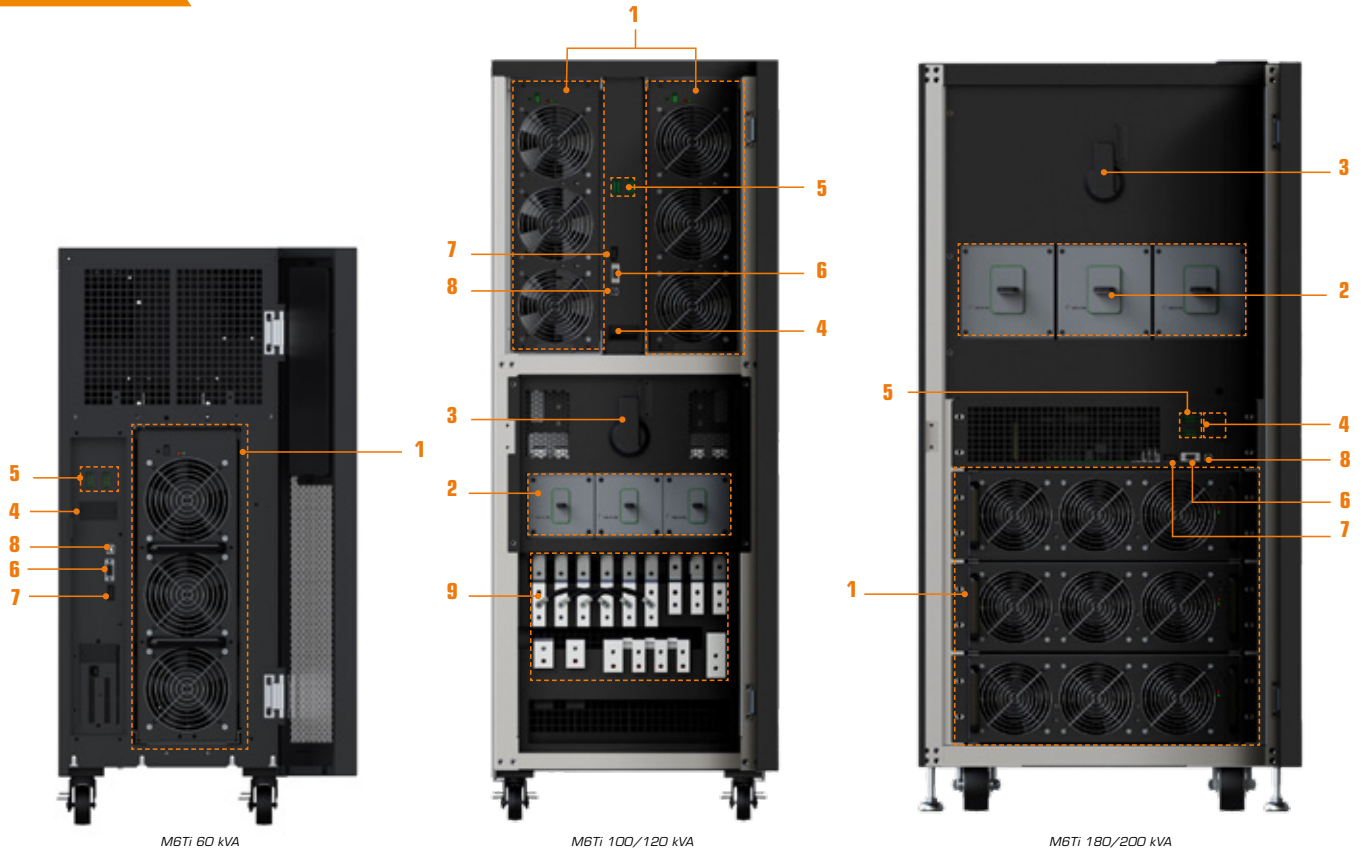
## Bypass and Dual Input

Its **dual power network** with separate rectifier and bypass is suitable for integration in sites operating with **redundant separate network** systems with generators (such as hospitals, airports, train stations, supermarkets, cold chains, etc.). This allows critical loads to be powered by a secondary source supplying the bypass circuit in case of prolonged failure of **the main source**.



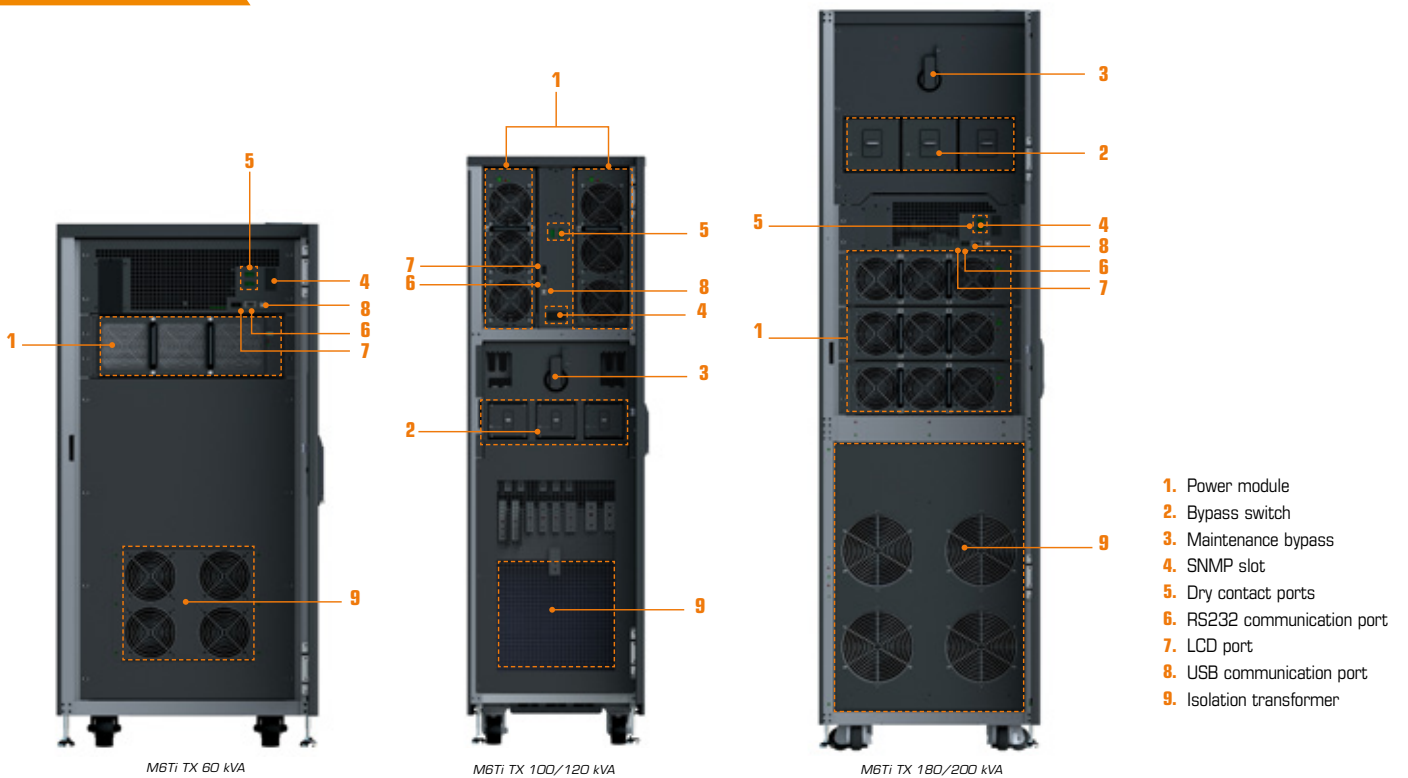
# Connectors

## M6Ti



- 1. Power module
- 2. Bypass switch
- 3. Maintenance bypass
- 4. SNMP location
- 5. Dry contact ports
- 6. RS232 communication port
- 7. Port LCD
- 8. USB communication port
- 9. Terminal block

## M6Ti TX



- 1. Power module
- 2. Bypass switch
- 3. Maintenance bypass
- 4. SNMP slot
- 5. Dry contact ports
- 6. RS232 communication port
- 7. LCD port
- 8. USB communication port
- 9. Isolation transformer

# Communication options

## Intuitive LCD touch screen

- **Note** : status and parameter values given in real time
- Intuitive, touch-sensitive **LCD display** on the front panel: direct access to UPS settings for rapid modification of operating modes (output voltage settings, etc.)
- **Frequency set** to 50 or 60 Hz or autodetection (simple setting from LCD screen)
- **History** of past events
- **6 LED indicators** : Mode Line, Bypass, Load, UPS, Battery and Fault

For maximum security, the UPS can be remotely monitored 24/7 and controlled online to allow for configuration without the need for physical intervention on the device. The variety of communication solutions thus enables adaptation to a wide range of interfaces.



## INFOPOWER SOFTWARE

Designed to simplify UPS management, the remote control software InfoPower is a user-friendly and intuitive computer interface that allows you to configure the UPS, trigger alerts in case of power outages, and view the UPS status.

## Remote control through USB and RS232 ports

The **USB** and **RS232 ports** allow for the use of communication protocols commonly found in IT infrastructures, data centers, and telecommunications networks.

These features enable **remote** management of the UPS and the **configuration** of alerts to stay constantly **informed** about its various operational states.

The interface can also be used to schedule the shutdown of devices and applications protected by the UPS to avoid any loss of information, and to protect against any loss of computer data.

## SNMP cards (optional)

Using the SNMP agent with M6Ti makes it easier to **manage** the UPS thanks to the following features:

- Connection to the Ethernet network and identification by **IP address** (random or fixed)
- Configuration and programming of weekly or other system shutdowns and restarts...
- Local or remote configuration of the UPS.

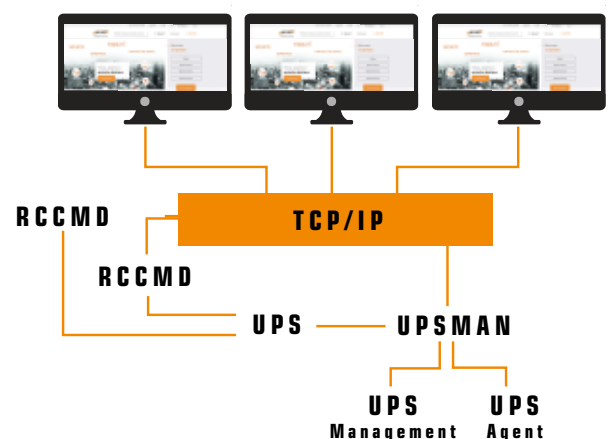


## SNMP card compatible with virtual networks

The compatibility of UPS with **virtual servers** is a key issue in order to protect sensitive hardware such as data centres or large remote servers.

Today, server **virtualisation** is a key factor in protecting data and increasing the storage space available to IT companies tenfold. It is therefore essential to offer UPS that can **manage** the **shutdown** of **virtual servers**.

The SNMP card option, compatible with **vmWare®** and **HyperV®** servers, positions the M6Ti and M6Ti TX family as an optimal tool for protecting key infrastructures in industry, IT or the medical environment.



## Applications

### Medical environment

Continuity of care, patient safety and the prevention of material damage mean that a constant, reliable supply is essential.

The **M6Ti** range enables medical establishments to operate reliably and securely, even in the event of electrical disturbances.

What's more, the UPS's efficient communications systems **enable 24/7 remote monitoring**, ensuring immediate response in the event of a problem or network failure.



### Industrial equipment

Production lines using equipment that cannot withstand a power interruption, including micro outages, have a critical need for electrical protection of their equipment.

Plants in the energy industry are also directly affected by the permanent need to supply an uninterrupted current load.

The adaptability of the **M6Ti** range to all types of loads, even the most difficult (inductive, capacitive, non-linear, discharge lamps, induction motors, etc.) and its **high efficiency** make it the ideal solution for **ensuring the supply and continuity of activities and services** for all kinds of industrial applications.



### Infrastructure

Large-scale infrastructures often require greater safety because they have to operate continuously and not be subject to forced stoppages, and above all because the very considerable human risks involved can neither be ignored nor minimised.

**M6Ti** meets the critical needs of airports, railway stations, hospitals, analysis laboratories, tunnels, shopping centres and other public infrastructures that can protect and **ensure continuous power supply to their sensitive equipment**.



## Technical Services and Support

Pre-sales and after-sales services provide a response tailored to your needs, to guarantee the longevity, reliability and availability of your UPS.



### Help with the technical definition of requirements

A pre-qualification questionnaire will be used to validate the technical choice and options selected for each installation configuration, and the advice of our technical sales team will be sought for the most complex problems.



### Commissioning

An INFOSEC technician or approved INFOSEC installer will come to your site to install and commission the UPS.

To support you after installation, we offer a UPS maintenance contract.



### Technical telephone support

An after-sales service is rapidly available by telephone to answer your questions or technical queries.



### Maintenance contract

INFOSEC Communication offers several types of maintenance contract for UPS in the ON LINE range from 5 kVA upwards. Maintenance contracts can include replacement of parts, replacement of batteries, labour, travel for servicing and an annual inspection.



### Replacing batteries

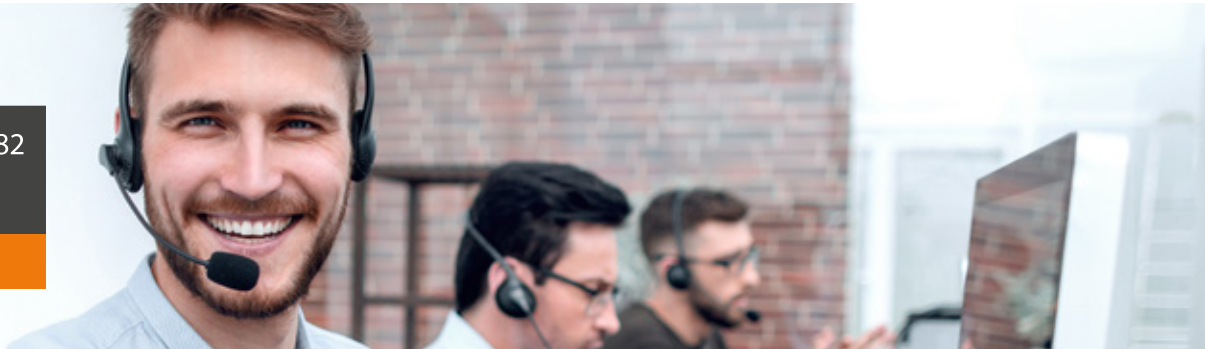
It is important to ensure that the batteries are in good working order, as after a few years they need to be replaced (between 3 and 5 years depending on ambient temperature and the number of charge and discharge cycles).

**The batteries must be changed by a professional: only an INFOSEC or INFOSEC-approved technician will be able to intervene on request.**

Tél : +33 (0)2 40 76 15 82

[hotline@infosec.fr](mailto:hotline@infosec.fr)

Hotline



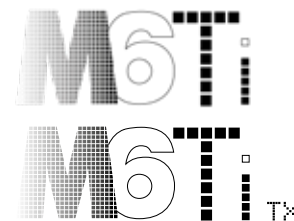
## Technical forms



### INFOSEC offers its partners and customers technical training courses :

- User training after on-site commissioning.
- More comprehensive training on the full range of INFOSEC UPS SYSTEM products for its authorised partners.
- Technical-commercial training to assist with sales and calculate the sizing of an UPS according to the site to be protected.

# Technical specifications



60 to 200 kVA

M6Ti 60K	M6Ti 100K	M6Ti 120K	M6Ti 180K	M6Ti 200K
M6Ti TX 60K	M6Ti TX 100K	M6Ti TX 120K	M6Ti TX 180K	M6Ti TX 200K

## General characteristics

<b>Power</b>	60 kVA 60 kW	100 kVA 100 kW	120 kVA 120 kW	180 kVA 180 kW	200 kVA 200 kW
<b>Technologie</b>	On Line Double Conversion				
<b>Waveform</b>	Pure sine wave				
<b>Protection</b>	IP 20				

## Physical characteristics

<b>Model - M6Ti standard</b>	<b>Dimensions (LxWxH) (mm)</b>	1000 x 320 x 800	1000 x 430 x 1200	1000 x 600 x 1200	
	<b>Net weight (kg)</b>	88	200	265	
<b>Model - M6Ti TX</b>	<b>Dimensions (LxWxH) (mm)</b>	1000 x 600 x 1200	1000 x 480 x 1600		1000 x 600 x 2000
	<b>Net weight (kg)</b>	334	496	536	845

## Input

<b>Voltage</b>	3 x 380/400/415 VAC (3Ph+N)
<b>Voltage range</b>	110-300 VAC (3-phase) @ 50% load 184-276 VAC (3-phase) @ 100% load
<b>Frequency range</b>	40~70 Hz
<b>Dual Input</b>	Yes

## Output

<b>Voltage</b>	3 x 360/380/400/415 VAC (3Ph+N)
<b>Voltage regulation (battery mode)</b>	± 1%
<b>Frequency range (synchronised range)</b>	46~54Hz or 56~64Hz
<b>Frequency range (battery mode)</b>	46~54Hz or 56~64Hz
<b>Crest factor</b>	3:1
<b>Harmonic distortion</b>	≤ 2% THD (linear load)
<b>Transfer time</b>	Line <----> Bat 0ms!NV <----> Bypass 0ms
<b>Output connection</b>	Terminal block

## Battery

<b>Cold start (mains off)</b>	Yes
<b>Recharge time</b>	9 hours at 90% capacity
<b>Load current (max)</b>	18A      24A      34A      54A      54A
<b>External battery cabinet</b>	Yes

## Indicators

<b>Indicator light</b>	7" multi-colour LCD touch screen
<b>Alarms</b>	Battery mode, low battery, overload, fault

## Bypass

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

## Efficiency

<b>Model - M6Ti standard</b>	<b>Mains mode</b>	95%
	<b>Eco Mode</b>	98,5%
	<b>Battery mode</b>	94,5%
<b>Model - M6Ti TX</b>	<b>Mains mode</b>	90%
	<b>Eco Mode</b>	93%
	<b>Battery mode</b>	88,5%

## Management/Communication

<b>Communication port</b>	RS232, USB, SNMP
<b>SNMP</b>	Management system using SNMP software (VMware®, Hyper VTM compatible) and web browser (optional)
<b>EPO connector</b>	Yes
<b>Parallel operation</b>	Up to 4 UPS
<b>Parallel connector</b>	standard

## Environment

<b>Humidity</b>	0-95% RH at 0-40°C (non-condensing)
<b>Altitude</b>	<1000m
<b>Noise level</b>	<75 dB

## Norms

<b>Standard</b>	CE RoHS
<b>EMC</b>	EN62040-2
<b>LVD</b>	EN62040-1

## Sales information

<b>Warranty</b>	1 year				
<b>Ref - M6Ti standard</b>	69309	69301	69302	69303	69304
<b>Ref - M6Ti TX</b>	69310	69305	69306	69307	69308

## Package contents

- M6Ti
- RS-232 cable
- USB cable
- Manual EN/FR

## Options

Accessories	Ref
SNMP Agent I Pro	61156
CS141Mini-6 VM SNMP Agent	61848
Dry contacts card (AS 400)	61454

## Software

- Programming the start and stop of the UPS
- Data and event logging for daily maintenance
- E-mail messaging to manage UPS status at any time via the local network
- Free download from the website

## Warranty

1-year warranty against any manufacturing defect under normal use and in compliance with the precautions for use. Warranty to be registered on the website within 10 days of purchase.



## Infosec Communication

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