

# CONFIGURATIONS

Model	Item code	Description	Runtime @ 80% load [min]	Cabinets	Configuration dimensions (W x H x D) [mm]
<b>TRIMOD 8</b>	P45010	UPS TRIMOD 8kVA 0min.	0	1*	414 x 1345 x 628
	P45010A	UPS TRIMOD 8kVA 10 min.	10	1	414 x 1345 x 628
	P45010B	UPS TRIMOD 8kVA 15 min.	15	1	414 x 1345 x 628
	P45010C	UPS TRIMOD 8kVA 20 min.	20	1	414 x 1345 x 628
	P45010D	UPS TRIMOD 8kVA 30 min.	30	1	414 x 1345 x 628
	P45010E	UPS TRIMOD 8kVA 45 min.	45	1	414 x 1345 x 628
	P45010F	UPS TRIMOD 8kVA 60 min.	60	2	2 x (414 x 1345 x 628)
<b>TRIMOD 10</b>	P45020	UPS TRIMOD 10kVA 0min.	0	1*	414 x 1345 x 628
	P45020A	UPS TRIMOD 10kVA 8 min.	8	1	414 x 1345 x 628
	P45020B	UPS TRIMOD 10kVA 15 min.	15	1	414 x 1345 x 628
	P45020C	UPS TRIMOD 10kVA 25 min.	25	1	414 x 1345 x 628
	P45020D	UPS TRIMOD 10kVA 35 min.	35	1	414 x 1345 x 628
	P45020E	UPS TRIMOD 10kVA 45 min.	45	2	2 x (414 x 1345 x 628)
	P45020F	UPS TRIMOD 10kVA 60 min.	60	2	2 x (414 x 1345 x 628)
<b>TRIMOD 16</b>	P45030	UPS TRIMOD 16kVA 0min.	0	1*	414 x 1345 x 628
	P45030A	UPS TRIMOD 16kVA 10 min.	10	1	414 x 1345 x 628
	P45030B	UPS TRIMOD 16kVA 15 min.	15	1	414 x 1345 x 628
	P45030C	UPS TRIMOD 16kVA 20 min.	20	2	2 x (414 x 1345 x 628)
	P45030D	UPS TRIMOD 16kVA 33 min.	33	2	2 x (414 x 1345 x 628)
	P45030E	UPS TRIMOD 16kVA 40 min.	40	2	2 x (414 x 1345 x 628)
	P45030F	UPS TRIMOD 16kVA 53 min.	53	3	3 x (414 x 1345 x 628)
P45030G	UPS TRIMOD 16kVA 75 min.	75	3	3 x (414 x 1345 x 628)	
<b>TRIMOD 20</b>	P45040	UPS TRIMOD 20kVA 0min.	0	1*	414 x 1345 x 628
	P45040A	UPS TRIMOD 20kVA 6 min.	6	1	414 x 1345 x 628
	P45040B	UPS TRIMOD 20kVA 9 min.	9	2	2 x (414 x 1345 x 628)
	P45040C	UPS TRIMOD 20kVA 15 min.	15	2	2 x (414 x 1345 x 628)
	P45040D	UPS TRIMOD 20kVA 25 min.	25	2	2 x (414 x 1345 x 628)
	P45040E	UPS TRIMOD 20kVA 35 min.	35	2	2 x (414 x 1345 x 628)
	P45040F	UPS TRIMOD 20kVA 45 min.	45	3	3 x (414 x 1345 x 628)
P45040G	UPS TRIMOD 20kVA 60 min.	60	3	3 x (414 x 1345 x 628)	
<b>TRIMOD 30</b>	P45050	UPS TRIMOD 30kVA 0min.	0	1	414 x 1345 x 628
	P45050A	UPS TRIMOD 30kVA 9 min.	9	2	2 x (414 x 1345 x 628)
	P45050B	UPS TRIMOD 30kVA 15 min.	15	2	2 x (414 x 1345 x 628)
	P45050C	UPS TRIMOD 30kVA 25 min.	25	3	3 x (414 x 1345 x 628)
	P45050D	UPS TRIMOD 30kVA 35 min.	35	3	3 x (414 x 1345 x 628)
	P45050E	UPS TRIMOD 30kVA 45 min.	45	4	4 x (414 x 1345 x 628)
	P45050F	UPS TRIMOD 30kVA 60 min.	60	4	4 x (414 x 1345 x 628)
P45050G	UPS TRIMOD 30kVA 80 min.	80	4	4 x (414 x 1345 x 628)	

\* Includes complete set of empty battery drawers

**This list contains only the basic models.  
Contact the MetaSystem Sales Team for information  
on longer runtimes or special configurations.**

TRIMOD®

UPS  
MetaSystem

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**UPS**  
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**TRIMOD®**



# TRIMOD



# The ideal UPS is here

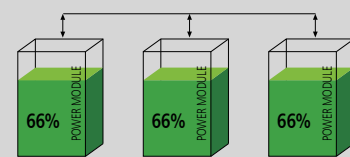
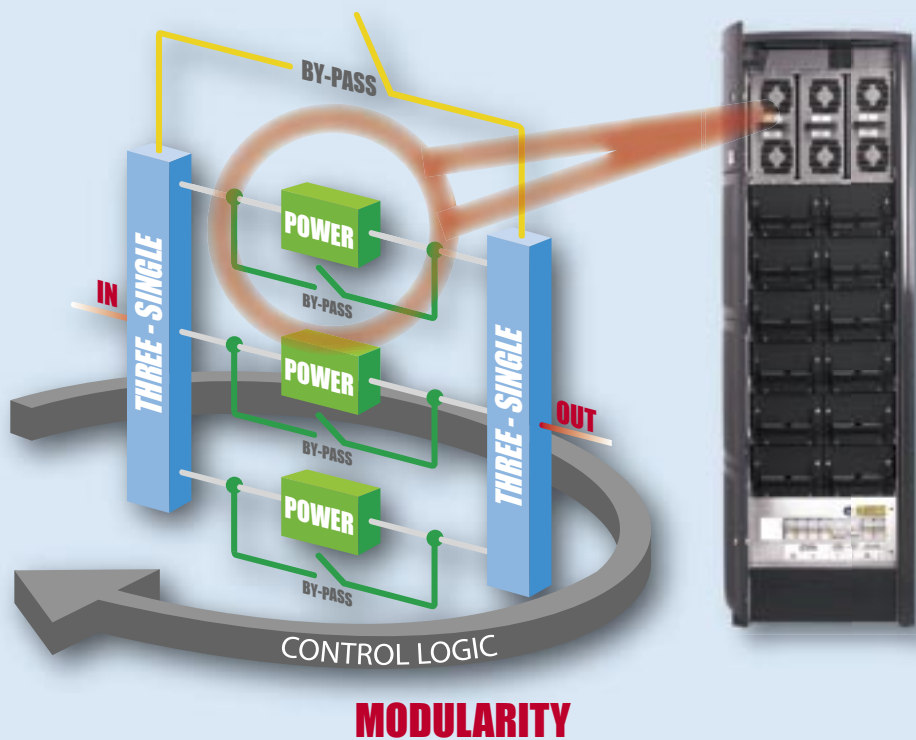
**TRIMOD, the new and revolutionary UPS by MetaSystem, has ideal features and delivers all the benefits you ever looked for in an Uninterruptible Power Supply.**

#### **Total reliability.**

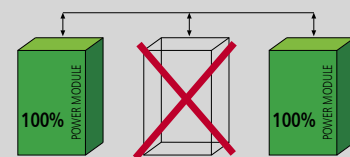
With its innovative modular structure and the excellent quality of MetaSystem electronics, TRIMOD guarantees virtually absolute reliability.

In fact, the modular solution applied to this UPS allows redundant configurations with respect to the load so that any failure of one module is covered by the remaining modules, with no downtime. Moreover, the modular solution offers the benefit of very short repair time along with the reassurance to fix the problem with the first assistance call.

# Modularity and Redundancy enable HIGH AVAILABILITY



EQUIVALENT TO



**REDUNDANCY**

## Total peace of mind when planning your investment.

A UPS is an important investment for our customers. Experience has shown that traditional UPS are generally oversized to accommodate future expansion that has to be planned for when a system is being first set up, demanding decisions to be taken right at the start. Often, the result is higher set-up costs or future complications if you top the capacity you originally envisaged.

Thanks to the modular concept, to the extremely compact size and to the simple installation process, TRIMOD addresses all of these issues since it can grow with the customer's real needs by simply adding power modules and battery modules as needed.

## Maximum savings in the operating costs

The energy efficiency offered by TRIMOD is one of the best available on the market today. This basically means it consumes less power when operating. Moreover, TRIMOD contributes to eliminate the costs related to the absorption of reactive power thanks to the Power Factor Correction of the input current, providing great power savings in operating costs, as well as savings in the installation and equipment costs.

## Maximum savings in the Total Cost of Ownership

The exclusive "Smart Charger" function ensures the battery is being equalised and balanced at all times, guaranteeing a longer working life and offering the benefits of great savings in maintenance costs.

## Maximum simplicity for transport and installation

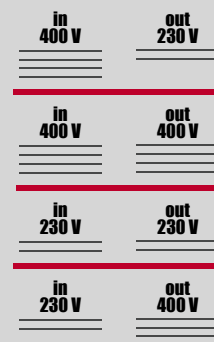
MetaSystem is dedicated to making the installer's job easier and simpler.

Thanks to the cutting edge electronic technologies applied by MetaSystem, TRIMOD is among some of the most compact and light products on the market today. TRIMOD is easily transported by a single person in a regular van, moved into position and installed inside the buildings, with the maximum of ease and in a minimum of time.

## Just one product for all your applications

TRIMOD meets the needs of a wide variety of applications demanding enhanced versatility in order to adapt to the various types of electrical systems. Single-or three-phase input, single-or three-phase output with the possibility of adapting the output voltage and frequency parameters, with insulation or passing neutral: TRIMOD covers all types of application with a single product, guaranteeing the utmost simplicity for our distribution partners and minimum delivery times for our customers.

**Modularity, redundancy, scalability, versatility, efficiency: these are all reasons why TRIMOD is truly a unique and revolutionary UPS. Simply ideal.**



- Three-phase input / Single-phase output
- Three-phase input / Three-phase output
- Single-phase input / Single-phase output
- Single-phase input / Three-phase output

# SPECIFICATIONS

Models	TRIMOD 8	TRIMOD 10	TRIMOD 16	TRIMOD 20	TRIMOD 30
<b>TECHNICAL SPECIFICATIONS</b>					
Nominal Power [kVA]	8	10	16	20	30
Active Power [kW]	6.4	8	12.8	16	24
Power Modules Installed	3	3	6	6	9
Technology	On line double conversion				
Input/Output Configuration	1/1, 3/1, 3/3, 1/3 (user selectable during installation)				3/3
<b>INPUT</b>					
Voltage Range [V]	230 +15% -20% / 400 +15% -20% (neutral line is needed)				
Nominal Frequency [Hz]	50 / 60				
Power Factor	> 0,99				
Current THD	3%				
<b>OUTPUT</b>					
Voltage Range [V]	230 ± 1% / 400 ± 1%				
Nominal Frequency (on mains) [Hz]	50 / 60 (synchronized)				
Nominal Frequency (on batteries) [Hz]	50 / 60 ± 1%				
Bypass	Static and electromechanical (independent on each power module)				
Overload Capacity on Mains	150% for 30 sec (without bypass intervention)				
Crest Factor	3.5				
<b>EFFICIENCY</b>					
AC / AC (on line)	93% max				
AC / AC (Eco Mode)	98%				
DC / AC (on batteries)	93% max				
<b>MECHANICAL SPECIFICATIONS</b>					
Dimensions (W x H x D) [mm]	414 x 1345 x 628				2 x (414 x 1345 x 628)
Net Weight (without batteries) [Kg]	110	110	130	130	154 + 70
Cooling System	Fan assisted, independent on each power module. Smart electronic control based on the ambient temperature and the load percentage				
Color	RAL 7016				
<b>STANDARDS</b>					
Electric Safety	Comply with regulation EN 62040-1-1				
Electromagnetic Compatibility	Comply with regulation EN 50091-2				
Typical Features	Comply with regulation EN 62040-3				
Protection Level	IP20				
<b>ENVIRONMENTAL SPECIFICATIONS</b>					
Working Temperature [°C]	0 ÷ 40				
Relative Humidity	20% ÷ 80% (non condensing)				
Acoustic Noise [dBA a 1m]	42 ÷ 46				
<b>EQUIPMENT</b>					
User Interface	Back-lit display with multicolor status indicator and multi-function buttons for real time monitoring of remaining runtime and UPS working status				
Communication	Two RS232 serial ports (on standard canon DB9 connectors) One logic level port (on canon DB9 male connector) Four dry contact outputs (user selectable NC or NO relay contacts)				
Maintenance bypass	Yes (included on all models)				
Isolating transformer	Yes (optional on request)				