



UPS
MetaSystem

TRIMOD®



TRIMOD



The ideal UPS is here

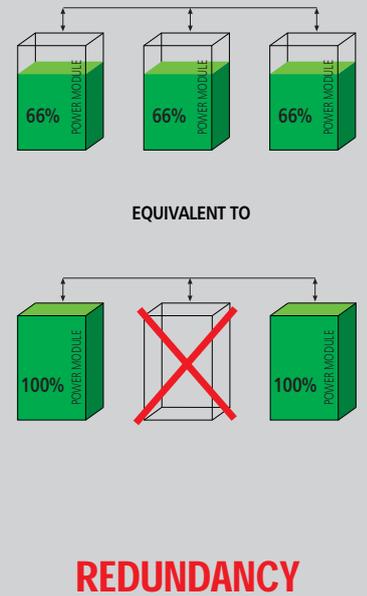
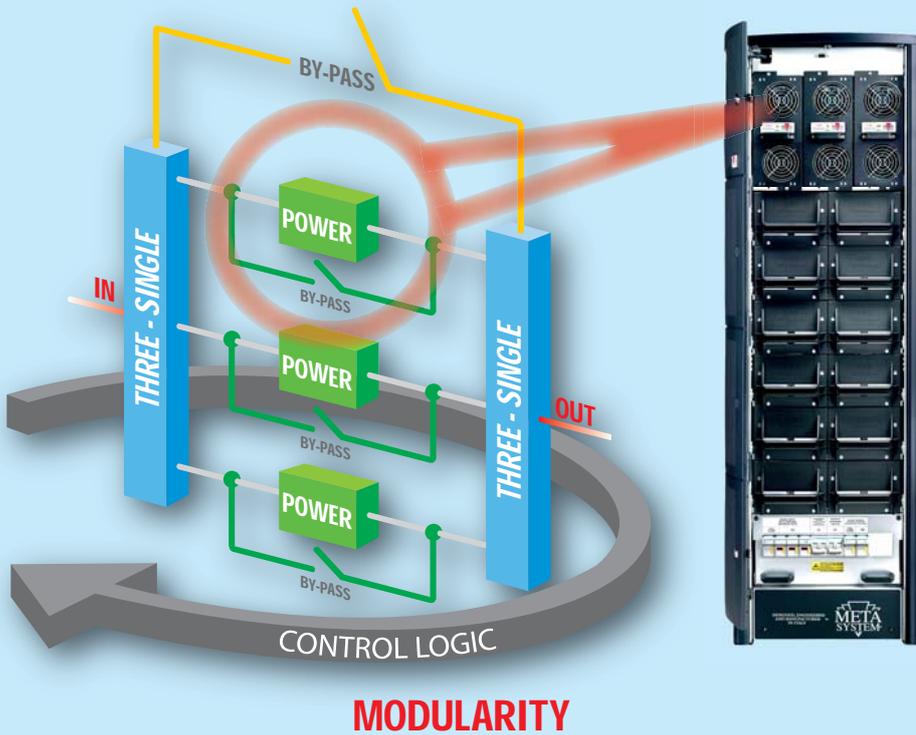
TRIMOD, the new and revolutionary UPS by MetaSystem, has ideal features and delivers all the benefits you ever looked for in an Uninterruptible Power Supply.

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



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

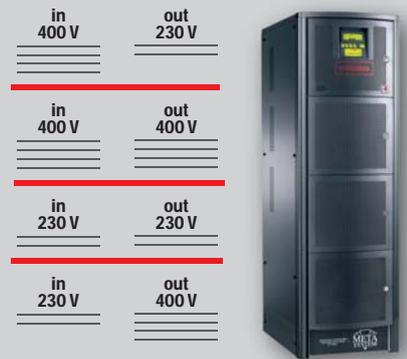
MetaSystem is dedicated to making the installer's job easier and simpler.

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

Model	TRIMOD 8	TRIMOD 10	TRIMOD 16	TRIMOD 20	TRIMOD 30
Specifications					
Nominal Power [kVA]	8	10	16	20	30
Active Power [kW]	6.4	8	12.8	16	24
Technology	On line double conversion (VFI)				
Input/Output Configuration	3/3 - 3/1 - 1/1 - 1/3 (user selectable during installation)				3/3
UPS Architecture	Modular, Scalable, Redundant N+X with 2700 VA and 3400 VA power modules, contained in a cabinet				
Input					
Input Voltage [V]	230 (single-phase) / 400 (three-phase + N)				400 (three-phase+ N)
Input Voltage Range [V]	230 + 15% - 20% / 400 +15% - 20%				400 +15% - 20%
Input Current THD	3%				
Input Power Factor	> 0.99				
Input Frequency [Hz]	50 / 60 ± 2% autosensing				
Output					
Output Voltage [V]	230 ± 1% / 400 ± 1%				400 ± 1%
Output Frequency [Hz]	50 / 60 synchronized				
Wave form	Sinusoidal				
Crest Factor	3.5 : 1				
Efficiency	93% max				
• on mains (AC/AC on line)	98%				
• on mains (AC/AC eco mode)	93% max				
• on battery (DC/AC)					
Overload capacity	125% for 5 min - 150% for 30 s				
Batteries					
Runtime	Refer to extended runtime table				
Runtime Extendibility	Yes				
General Specifications					
Bypass	Static and electromechanical on each module, independent of each other General automatic Manual (maintenance)				
Signals and Alarms	Wide 4-line alphanumeric display with real time monitoring of UPS status Multicolour status indicator Acoustic signalling				
Communication Ports	N. 2 RS232 ports N. 1 Logic level port N. 4 Dry contacts ports (relay contacts, NC / NO selectable) N.1 Slot for SNMP adapter connection				
Software	UPS Communicator (download free of charge from the website www.metasystem.it)				
Protection	Electronic protection against overloads, short circuits and excessive battery discharge Operation blocked at end of runtime Inrush limitation when switching on EPO contact (emergency power off)				
Input/Output Connectivity	Terminal board				
Isolation Transformer	On request				
Mechanical Specifications					
Power Modules Installed	3		6		9
Battery Drawers Installed	Refer to extended runtime table				
Net Weight [Kg]	110		130		154
Dimensions (W x H x D) [mm]	414 x 1345 x 628				2 x (414 x 1345 x 628)
Environmental Data					
Working Temperature [°C]	0 ÷ 40				
Relative Humidity	20% ÷ 80% non condensing				
Acoustic Noise @ 1 m [dBA]	42 ÷ 46				
Standards					
Standards	EN 62040-1-1, EN 50091-2, EN 62040-3				
Guarantee					
Guarantee	2 year				

CONFIGURATIONS

Model	Nominal Power [kVA]	Nominal Power [kW]	Runtime @ 80% load [min]	Cabinet Total Number	Part number	Net Weight [Kg]
TRIMOD 8	8	6.4	0	1	P45010	111
			10	1	P45010A	165
			15	1	P45010B	165
			20	1	P45010C	219
			30	1	P45010D	219
			45	1	P45010E	273
			60	2	P45010F	417
TRIMOD 10	10	8	0	1	P45020	111
			8	1	P45020A	165
			15	1	P45020B	219
			25	1	P45020C	273
			35	1	P45020D	273
			45	2	P45020E	471
			60	2	P45020F	471
TRIMOD 16	16	12.8	0	1	P45030	136
			10	1	P45030A	244
			15	1	P45030B	244
			20	2	P45030C	442
			33	2	P45030D	550
			40	2	P45030E	550
			53	3	P45030F	802
TRIMOD 20	20	16	0	1	P45040	136
			6	1	P45040A	244
			9	2	P45040B	298
			15	2	P45040C	442
			25	2	P45040D	550
			35	2	P45040E	550
			45	3	P45040F	802
TRIMOD 30	30	24	0	1	P45050	162
			9	2	P45050A	468
			15	3	P45050B	666
			25	4	P45050C	918
			35	4	P45050D	1080
			45	5	P45050E	1332
			60	6	P45050F	1584
80	6	P45050G	1584			

* The above configurations are based on battery cabinets WITH DRAWERS



You can download the **UPS Configurator** free of charge from our website: **www.metasystem.it**. It will help you determine the right size of UPS based on your needs. The modular structure of MetaSystem UPS gives you the option of a wide choice of different runtimes. We have listed the most common runtimes in our table: for any other runtimes, we suggest using the **UPS Configurator** software.

MetaSystem

TEAM ENERGIZED

Panasonic

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Dealer stamp

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www.metasystem.it



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