

10-40 kVA/kW 3/3, 3/1, 1/1 phase 10-90 kVA/kW 3/3 phase







Authorized distributor:



## Product Overview

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The first UPS in a rack that combines compact size, ease of use and installation flexibility



MiniMUST can be easily adapted to any type of installation thanks to the possibility to operate indifferently as 3/3, 3/1 or 1/1. The Coated boards make it a solution suitable for harsh environments and it increases the reliability and expected life obtaining a result among the most important in the market.

# Product Topology



Minimust can be installed as stand alone solution or it can be inserted in existing standard 19" cabinet. It guarantees maximum flexibility because of its modularity. It permits to install the Minimust as a block or even in single module configuration inside the cabinet, with bypass and power modules.

- **EASY ACCESS**: Whatever the chosen configuration, the convenience of access is guaranteed by the positioning of the controls that are always easily accessible.
- **SMART SERVICE MANAGEMENT**: maintenance alert for critical components, such as capacitors and fans, in order to guarantee proper operation through preventive interventions.



: MiniMUS

### Product range

#### MAXIMUM FLEXIBILITY IN YOUR HANDS



#### MINIMUST 10/20 KVA

This system is built to host 2 units of power module 10 kVA . It is an ideal solution for a low/medium load that requires redundancy or the possibility to expand the power in the future.

Maximum power 20 kVA cosphi = 1.

### Interface



#### MINIMUST 10/40 KVA

This system is built to host 4 units of power module 10 kVA . It is an ideal solution for a medium load that requires redundancy or the possibility to expand the power in the future.

Maximum power 40 kVA cosphi = 1.



#### MINIMUST 10/60-15/90 KVA

This system is built to host 6 units of power module 10 kVA or 15 kVA. It is an ideal solution for a medium load that requires redundancy or the possibility to expand the power in the future.

Maximum power 90 kVA cosphi = 1.



7" colored touch screen easy to use with total control of parameters, setting and status of the system

Programmable dry contact for easier integration in local monitoring system

SMNP option for web monitoring

**RS232 and RS485 communication port** 

# Green Technology



- SMART PARALLEL MANAGEMENT: Flat curve of efficiency in a large power range that minimizes energy losses at lower load.
- Excellent input and output electrical performances such as very low harmonic distortion to the mains, which means a clean electrical network without disturbances to other critical loads, as well as lower energy losses.
- Modular structure that allows to achieve the requested power using only the necessary number of modules.

### Technical Specifications

MODEL	10 KV	/A - 40 KVA		15 K\	/A - 90 KVA**	
	10	<w -="" 40="" kw<="" td=""><td></td><td>15</td><td>5 kW - 90 kW</td><td></td></w>		15	5 kW - 90 kW	
MAIN INPUT				1		
Input Voltage	380V/400V/415V(line to line) 220V/230V /240V(line to neutral)					
Input frequency	50/60Hz					
Power factor	>0.99					
Input voltage window	up 276Vac; down -40% (-20%,-30%, -40% selectable) -20%~-40% rated power derating from 100%~80%					
Frequency window	-20%~-40% rated power derating from 100%~80% 40-70Hz					
BATTERY						
Battery voltage	±240VDC					
Charger power	20%*Active Power					
Charger voltage precision				1%		
BYPASS			0001//1021			
Bypass voltage	380V/400V/415V(line to line) 220V/230V/240V(line to neutral)					
Bypass voltage window	-20%-+15% default; -40%-+25% selectable					
Bypass overload capabiltiy	125%, long time operation 125%< load <130%, last for more than 10 mins 130% <load<150%,last 1="" for="" min<br="" more="" than="">load&gt;150%, last for more than 300ms</load<150%,last>			110%, long time operation 110%< load <130%, last for more than 5 mins 130% <load<150%,last 1="" for="" min<br="" more="" than="">load&gt;150%, last for more than 300ms</load<150%,last>		
OUTPUT						
Output voltage	380V/400V/415V(line to line) 220V/230V/240V(line to neutral)					
Voltage precision	1.5%					
Voltage THD(Total Harmonic Distortion)*	THD<1%(linear load),THD<5.5%(nonlinear load)					
Power factor	1					
Phase tolerance	120°±0.5° (balance and unalance load)					
Crest factor	3:1					
Overload capabiltiy	<102%, long time 110%, transfer to bypass after 60minutes 125%, transfer to bypass after 10 minutes 150%, transfer to bypass after 1 mintute >150%, transfer to bypass after 200ms					
SYSTEM						
System efficiency*	Normal mode: 95% ECO mode: 99%					
Battery mode efficiency*	94,5%					
Display	7" touched colorful LCD+LED					
IP class	IP20					
Interface (Communication Ports )	RS232,RS485,Dry contactor,SNMP card(optional),EPO					
Installation/Connection	Back or bottom cable entry					
Operation temperature	0-40°C					
Storage temperature	-25°C~70°C					
Relative humidity	0-95% (non-condensing)					
Noise(dB)(1m away from front panel)	56dB (one module) 58dB (one module)					
Dimension(W*D*H)mm Net Weight(kg)	6-module cabinet: RM060/10X	485*751*1033	70	6-module cabinet:RM090/15X	485*751*1033	70
	4-module cabinet: RM040/10X	485*697*575 (11U)	51			
	2-module cabinet: RM020/10X	485*697*398 (7U)	42			
	Power Module: PM10X	436*590*85 (2U)	15,3	Power Moudle: PM15X	436*590*85 (2U)	15,5

\*Tested in 3/3 mode

CE

\*\* Available from Q4 2016

Note: product specifications are subject to change without further notice.



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