

10-60 kVA 3/3, 3/1, 1/1 15-90 kVA 3/3





Smart Energy Solutions

## The System

2

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 Design

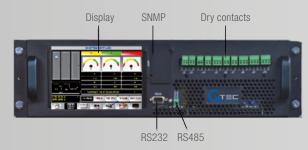


## HOT SWAPPABLE MODULEHOT SWAPPABLE BYPASS

**MiniMust** cutting edge architecture allows during maintenance to carry out the hot swapping of modules and the bypass.

Minimust can be installed as stand alone solution or it can be inserted in existing standard 19" cabinet.

Interface



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** 

### 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.



#### **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.

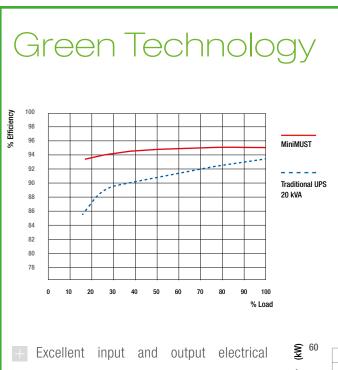
Maximum power 40 kVA cosphi = 1.



#### 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.

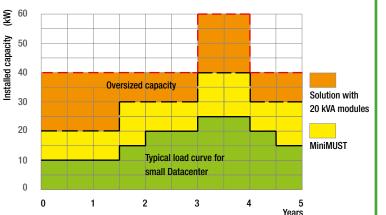
Maximum power 90 kVA cosphi = 1.



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.



- High efficiency provided by the most recent electronic technology (95% normal mode, 99% eco mode).
- Flat curve of efficiency in a large power range that minimizes energy losses at lower load.



### Technical Specifications

	10 KVA - 60 KVA		15 K	VA - 90 KVA		
	10 kW - 60 kW		15	kW - 90 kW		
	380V/400V/415V (three phases with n 220V/230V /240V (singlephase)		380V/400V/415V (three phases with neutral)			
		50/60Hz				
	>0.99					
	up 276 Vac ; down 132 Vac					
W	-20%~-40% rated power derating from 100%~80%					
	40-70Hz					
	±240VDC					
	VRLA AGM/GEL; Ni-Cd					
	380V/400V/415V (three phases with neutral) 220V/230V/240V (singlephase)					
wob	-20%-+15% default; -40%-+25% selectable					
pabiltiy	125%, long time operation 125%< load <130%, last for more than 130% <load<150%,last for="" more="" than<br="">load&gt;150%, last for more than 300</load<150%,last>	1 min	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>			
	380V/400V/415V (three phases with n 220V/230V /240V (singlephase)		380V/400V/415V (three phases with neutral)			
	1.5%					
monic Distortion)*	THD<1%(linear load),THD<5.5%(nonlinear load)					
	1					
	120°±0.5° (balance and unalance load)					
	3:1					
	<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					
	Normal mode: 95% ECO mode: 99%					
ency*	94,5%					
	7" touched colorful LCD+LED					
	IP20					
cation Ports )	RS232,RS485,Dry contactor,SNMP card(optional),EPO					
ion	Back or bottom cable entry					
ure	0-40°C					
e	-25°C~70°C					
	0-95% (non-condensing)					
from front panel)	56dB (one module)			3 (one module)		
	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)					
	2-module cabinet: RM020/10X 485*697*398 (7U)	42				
	Power Module: PM10X 436*590*85 (2U)		Power Moudle: PM15X	436*590*85 (2U)	15,5	
	European directive: L V 2014/35/EU Low voltage directive; EMC 2014/30/EU Electromagnetic compatibility directive					
	Standards: Safety IEC EN 62040-1; EMC IEC EN 62040-2					
F E S	Power Module: PM10X 436*590*85 (2U) European directive: L V 2014/35/EU Low voltage dir	15,3 rective; EMC 2014/3 2040-2	80/EU Electromagnetic compatibili			

\*Tested in 3/3 mode

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



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