

### **ADVANTAGES**

### **FLEXIBILITY**

MINIMUST is an extremely versatile solution that can easily adapt to any type of installation.

The system can in fact mount 10 or 15 kVA modules and can be configured in 1/1, 3/1 and 3/3 modes, both as stand-alone UPS and in rack mode inside a standard 19" cabinet.

Its modular structure also allows to increase the number of modules according to the power required. Each new module inserted is automatically configured according to the new overall power of the system, guaranteeing unparalleled ease of use.

#### RELIABILITY

MINIMUST is an extremely reliable UPS, first and foremost thanks to its particular modular structure, which allows it to operate in **n+1 redundancy** even for medium/low power sizes. It is in fact possible to configure one module more than what is necessary for covering the base load, so that even in case of exclusion of a module, power remains equally guaranteed by the other modules in operation.

UPS is then built exclusively with high reliability materials and equipped with standard painted boards.

In addition, thanks to the special **Smart Parallel Management** function, the components always work at optimum power, thus increasing the efficiency of the system and at the same time reducing the wear of the parts involved.

# **PRODUCT RANGE**







### MINIMUST - 10/20 KVA

UPS can accommodate up to 2 10 kVA power modules, with the possibility of setting the n+1 redundancy.

The system can be configured in 1/1, 3/1 and 3/3 modes.

Maximum power: 20 kVA, PF 1

#### MINIMUST - 10/40 KVA

UPS can accommodate up to 410 kVA power modules, with the possibility of setting the n+1 redundancy.

The system can be configured in 1/1, 3/1 and 3/3 modes.

Maximum power: 40 kVA, PF 1

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

UPS can accommodate up to 6 10 kVA or 15 kVA power modules, with the possibility of setting the n+1 redundancy.

The system can be configured in 1/1, 3/1 and 3/3 modes for the 10/60 kVA model and in 3/3 mode for the 15/90 kVA model.

Maximum power: 90 kVA, PF 1

### **TECHNOLOGY**

This system is made with the latest generation components and state-of-the-art technology.

Rectifier and inverter with IGBT technology

Standard programmable clean contacts card

Emergency Power Off (EPO)

**Digital microprocessor control with DSP** of the latest generation

**Tropicalised boards** with high reliability

**Hot Swap** Control and Bypass Module

# **MODULAR ARCHITECTURE**



MINIMUST modular structure allows to operate in redundancy n+1 even for medium/low power sizes.



Each new module inserted is automatically configured according to the new available power.



The system can also be installed in rack mode in a standard 19" cabinet



# **CONNECTIONS AND INTERFACE**

In addition to the more common **RS232 and RS485 communication ports**, MINIMUST offers a **programmable clean contact card** as standard for easier integration with local monitoring systems.

On request, there is also **the SNMP option** that allows to connect the uninterruptible power supply via an Ethernet network.



# **ADVANCED COMMUNICATION**



### TOUCH SCREEN DISPLAY

MINIMUST is equipped with an advanced **7" colour touch screen display** that allows to quickly monitor the status of the system, as well as directly set the main settings.

Also available on the panel is the **EPO** (Emergency Power Off) button and an **LED indicator** that takes on a different colour depending on the operating modes and conditions.



#### UPSILON SOFTWARE

UPS is equipped with **professional monitoring software** to display information in real time through a clear and intuitive screen, highlighting the operating status and main parameters of the UPS.

#### SUPPORTED OPERATING SYSTEMS

Windows; Linux; Novell Netware; Mac OS; IBM OS/2; HP OPEN VMs; Most commonly used UNIX operating systems such as: IBM AIX, HP UNIX, SUN Solaris INTEL and SPARC, SCO UNIX and UnixWare, Silicon Graphic IRIX, Compaq Tru64 UNIX and DEC UNIX, BSD UNIX and FreeBSD UNIX, NCR UNIX.



System main data screen.



Battery status information screen.



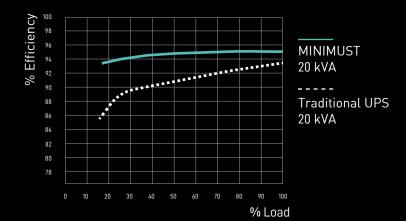
Information screen on the status of the power modules.



### **EFFICIENCY**

Every single element of MINIMUST has been designed and taken care of in the smallest detail, thus leading the UPS to reach the highest levels of efficiency available in the industry.

MINIMUST is able to achieve a yield of 95% in Normal Mode and up to 99% in Eco Mode. This level of performance allows for significant energy savings.



**NIGHT LOAD / VARIABLE LOAD** 

15 kVA (n+1)

OFF ON

# SMART PARALLEL MANAGEMENT

MINIMUST is equipped with an innovative power module control system that maximises UPS performance and duration. Depending on the requirements, the system is indeed able to automatically manage the operation of the modules, switching them on and off according to the load level and operating hours.

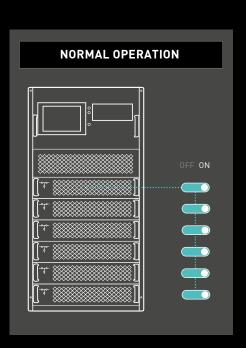
Therefore, Smart Parallel Management offers multiple advantages: increased efficiency, reduced wear and tear on the parts involved and minimisation management costs.

Here is a practical example of a variable load system, where thanks to the Smart Parallel Management function of MINIMUST - 15/90 kVA there is a significant operational improvement.

OPTION A

**NORMAL OPERATION** 





Working modules Module's power System efficiency 12.5 kVA 95%

Working modules Module's power System efficiency 2,5 kVA Module's power 89%

Working modules

2 7.5 kVA

OFF ON

95% System efficiency

OPTION B

**SMART PARALLEL MANAGEMENT** 

March as part proper   20 (ME) (2010)   40 (ME) (100)   50	MODEL	MMUST-20R	MMUST-40R	MMUST-60R	MMUST-90R	
Mode again   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   1006/1048   10	Maximum system power	20 kVA / 20 kW				
Section   Schedule		20 1011/1 20 101		00 KW ( 00 KW		
Section catego   Fire party   Section Catego   Fire party   Section Catego   Fire party   Section Catego   Section Catego   Fire party   Section Catego   Sec						
Separation   Sep	Grid system	3 Phases + Neutral + Ground standard (1P+N+G optional)				
Publish (1976)   Publ	Rated voltage / Frequency	380V/400V/415V threephases with neutral, 220V/230V/240V singlephase, 50/60Hz with neutral, 50/60Hz				
Prepare promp   Prepare pro	Voltage range	Up 276 Vac; Down 132 Vac				
### PASS INFU*  ### PASS INFU	Frequency range					
Selection   Sel						
6/05 actions         3 thates a Hourilla - Ground standard (P. Park Ground)         Comment of the Park Ground (P. Park Ground)         Comment of the Park Ground)         Comment of the Park Ground (P. Park Ground)         Comment of the Park Ground)         Comment of the Park Ground (P. Park Ground)         Comment of the Par	Current THDi	4%				
Margar (angua)   Segon/Auto (1997 (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992) (1992)	BYPASS INPUT					
Selection process   Sel						
Selectional pit 0 - 40% - + 25%   Telephonology   Selectional pit - 40% - 12%   Selectional pit - 40% - 40%   Selectional pit - 40%   Selectional pit - 40% - 4	Rated voltage / Frequency					
\$\$   \$\$   \$\$   \$\$   \$\$   \$\$   \$\$   \$	Voltage range					
\$	Frequency range					
Proper factor	Bypass overload	125% <load<130%, 10="" minutes<="" td=""><td>110%, long term operation 110%<load<130%, 5="" minutes<br="">130%<load<150%, 1="" minute<br="">load&gt;150%, 300 milliseconds</load<150%,></load<130%,></td></load<130%,>			110%, long term operation 110% <load<130%, 5="" minutes<br="">130%<load<150%, 1="" minute<br="">load&gt;150%, 300 milliseconds</load<150%,></load<130%,>	
Sealer Unique   Prequency   Sealer Unique   Sealer	ОИТРИТ					
Valega Pal-DA	Rated voltage / Frequency	380V/400V/415V threephases with neutral, 220V/230V/240V singlephase, 50/60 Hz  380V/400V/415V threephases with neutral, 50/60 Hz				
Voltage precision         -5.5% (or-) linear load)           Transient response         -5.5% for step load (20-80%; 100-20%)           Transient response         -5.5% for step load (20-80%; 100-20%)           Invested recovery         -5.0% for step load (01-90%; 100-40%)           Invested recovery         -5.0% (20%) (org time or organism)           Invested recovery         -5.0% (20%) (org time or organism)           Invested recovery         -5.0% (20%) (org time or organism)           Invested recovery         -5.0% (20%) (org time organism)           Invested recovery (regulation from battery)         -5.0% (20%) (org time organism)           Specimentation from battery         -5.0% (org time organism)           Synchronized silew rate         -5.0% (organism)           Orest stoor         -5.0% (organism)           Selectable, 0.1 1+2% - 5 1+2%, default 0.5 1+2%           Selectable (0.1 1+2% - 5 1+2%), default 0.5 1+2%           Selectable (0.1 1+2% - 5 1+2%), default 0.5 1+2%           Selectable (0.1 1+2% - 5 1+2%), default 0.5 1+2%           Selectable (0.1 1+2% - 5 1+2%), default 0.5 1+2%           Selectable (0.1 1+2% - 5 1+2%), default 0.5 1+2%           Selectable (0.1 1+2% - 5 1+2%), default 0.5 1+2%           Selectable (0.1 1+2% - 5 1+2%), default 0.5 1+2% <td>Power factor</td> <td colspan="4"></td>	Power factor					
Voltage precision         5.5% for state do Q2 80%; 100-20%           Tarasient response         4,5% for state do Q2 80%; 100-20%           Tarasient response         4,00% for state do Q2 80%; 100-20%           Tarasient receivey         4,00% for state do Q2 80%; 100-20%           Invested receivey         4,00% for state do Q28%, 100 part on pearation.           Invested for control battery         1,25%, 100 minutes.           Synchronized state y         5,00% Q10 millisonorids.           Synchronized state y         5,00% Q10 millisonorids.           Synchronized state y         5,00% Q10 millisonorids.           Synchronized state y rate.         5,00% Q10 millisonorids.           Synchronized state y rate.         5,00% Q10 millisonorids.           Batter y rate.         5,00% Q10 millisonorids.           Battery provided year value.         5,00% Q10 millisonorids.           Cest factor.         5,00% Q10 millisonorids.           Battery provided year value.         5,00% Q10 millisonorids.           Battery provided year value.         5,00% Q10 millisonorids.           Battery provided year value.         5,00% Q10 millisonorids.           System         5,00% Q10 millisonorids.           Sharp year year value.         5,00% Q10 millisonorids.           Battery year year year value.         5,00% Q10 millisonorids.	Voltage THDv					
Familiant recovery   Selectable   Selecta	Voltage precision	· · · · · · · · · · · · · · · · · · ·				
Inverter overload	Transient response					
Preferency regulation from battery   Property regulation from batteries   Propert	Transient recovery					
Frequency regulation from battery         Spice to 1% is           Synchronized range         Selectable, at Hz − ±5 Hz, default ±2 Hz           Cover factor         Selectable, 11 Hz/S = 5 Hz/S default 0.5 Hz/S           Cover factor         Selectable, 11 Hz/S = 5 Hz/S default 0.5 Hz/S           Death Text (as factor)           Battery rate voltage         Selectable 32.44 without deraiting           Number of batteries ?         Standard: 40 (201-20) batteries 12V           Selectable: 32.44 without deraiting           Charge voltage precision         1 Selectable: 32.44 without deraiting           Charge voltage precision         1 Selectable: 32.44 without deraiting           Battery page of batteries arrangement         1 Selectable: 32.44 without deraiting	Inverter overload	110%, 60 minutes 125%, 10 minutes 150%, 1 minute				
Synchronized sew rate         Selectable, 0.1 Hz/S - 5 Hz/S, default 0.5 Hz/S           Crest factor           BATTERIES           Eattery voltage         ±240 VDC (selectable)           Wumber of batteries *         Standard: 40 (20+20) batteries 12V           Changer voltage precision         5 sternal           Eatteries arrangement         Eatteries arrangement         Eatteries arrangement         Eatteries arrangement         Foliation you be a sternal you be	Frequency regulation from battery					
Creat factor           ATTERIES           ±240 VOIC (selectable)           5 selectable: 32-44, without derating           Charge roldage precision         5 selectable: 32-44, without derating           Satteries arrangement         5 selectable: 32-44, without derating           Setteries arrangement         5 selectable: 32-44, without derating           Satteries arrangement         99% Selectable: 32-44 without derating           5 selectable: 32-44 without derating           Satteries arrangement           5 selectable: 32-44 without derating           5 selectable: 32-44 without derating           5 selectable: 32-44 without derating </td <td>Synchronized range</td> <td colspan="4">Selectable, ±1 Hz ~ ±5 Hz, default ±2 Hz</td>	Synchronized range	Selectable, ±1 Hz ~ ±5 Hz, default ±2 Hz				
Battery rate voltage         ± 240 VDC (selectable)           Number of batteries **         Selectable: 32-44, vilhout deraiting: 12V S						
Battery rate voltage         ±240 VDC (selectable)           Number of batteries *         Standard. 40 (20+20) batteries 12V           Charger voltage precision         External           Batteries arrangement         External           Battery type         Fyb / N-Cd           SYSTEM           Normal operation: 95% Eco Mode operation: 99% Battery operation: 99% 				3:1		
Number of batteries * Standard* 40 (20+20) batteries 12V Selectable: 22-44, without derating           Charger voltage precision         1%           Batteries arrangement         External           Battery type         Pb / Ni-Cd           SYSTEM           Normal operation: 95% Eco Mode operation: 99% Battery			210-12	V(25 2515 5)		
Selectable: 32-44, without derating           Charger voltage precision         1%           Batteries arrangement         FPb / NI-Cd           SYSTEM           Normal operation: 95% Eco Mode operation: 99%						
Batteries arrangement         External           External Statery type         External Statery type         External Statery operation: 99/ Normal operation: 99% Battery op		Selectable: 32-44, without derating				
Battery type         Pb / Nic d           SYSTEM           Efficiency         Normal operation: 95% Eco Mode operation: 99% Battery operation: 99% Protection degree           Find protection of						
SYSTEM           Efficiency         Normal operation: 95% Eco Mode operation: 99% Battery operation: 94,5%           Display         LED + LOD Touch screen           Protection degree         Protection degree           Interface         Standard equipment: RS232, R5485, dry contacts, EPO Optional: SMMP           ENVIRONMENT           Operating temperature         O ~ 40 °C           Storage temperature         O ~ 95% (no condensing)           Noise (dBA at 1 meter far)         Maximum 56 dB         Maximum 58 dB           Altitude         < 1000m; load derated 1% per 100m, from 1000 ~ 2000m         MECHANICAL DATA           Power module dimensions W*D*H (mm)         485*697*398 (7U)         485*697*575 (11U)         485*07*1033           Cabinet dimensions W*D*H (mm)         485*697*398 (7U)         485*697*575 (11U)         485*07*1033           Cabinet weight (Kg)         42         51         51         51         55         51         55         55         55			-			
Efficiency         Normal operation: 95% Eco Mode operation: 94,5%           Display         Fotection degree           Protection degree         Protection degree           Interface         Standard equipment: RS23 RS485, dry contacts, EPO Optional: SMMP           ENVIRONMENT           Operating temperature         0 ~ 40 °C           Storage temperature         0 ~ 95% (no contacts, EPO Optional: SMMP)           Relative humidity         0 ~ 95% (no contacts, EPO Optional: SMMP)           Noise (dBA at 1 meter far)         Maximum 56 dB           Altitude         < 1000m; load derated 1% per 100m, from 1000 ~ 2000m*           MECHANICAL DATA           Power module dimensions W*D*H (mm)         485*697*398 (7U)         485*697*575 (11U)         485*75*1033           Cabinet dimensions W*D*H (mm)         485*697*398 (7U)         485*697*575 (11U)         485*75*1033           Cabinet weight (Kg)         485*697*398 (7U)         485*697*575 (11U)         485*75*1033           Cabinet weight (Kg)         485*697*398 (7E)         485*697*398 (7E)         485*697*398 (7E)         485*697*398 (7E)         485*697*398 (7E) <t< td=""><td></td><td></td><td>P07</td><td>TVI - OU</td><td></td></t<>			P07	TVI - OU		
Protection degree         IP20           Interface         Standard equipment: RS232, RS485, dry contacts, EP0 Optional: SNMP           ENVIRONMENT           Operating temperature         0 ~ 40 °C           Storage temperature         -25 ~ 70 °C           Relative humidity         0 ~ 95% (no condensing)           Noise (dBA at 1 meter far)         Maximum 56 dB         Maximum 58 dB           Altitude         < 1000m; load derated 1% per 100m, from 1000 ~ 2000m           MECHANICAL DATA           Power module dimensions W*D*H (mm)         485*697*398 (7U)         486*590*85 (2U)           Power module weight (Kg)         15,3         15,5           Cabinet dimensions W*D*H (mm)         485*697*398 (7U)         485*697*575 (11U)         485*7*1033           Cabinet weight (Kg)         42         51         0         15,5		Eco Mode operation: 99%				
Standard equipment: RS232, RS485, dry contacts, EPO Optional: SNMP           ENVIRONMENT           Operating temperature           Operating temperature         0 ~ 40 °C           Storage temperature         -25 ~ 70 °C           Relative humidity         Maximum 56 dB         Maximum 56 dB         Maximum 56 dB         Maximum 58 dB           Altitude         < 1000m; load derated 1% per 100m, from 1000 ~ 2000m           MECHANICAL DATA           Power module dimensions W*D*H (mm)         15,3         15,5           Power module weight (Kg)         15,3         15,5           Cabinet dimensions W*D*H (mm)         485*697*398 (7U)         485*697*575 (11U)         485*75*103           Cabinet weight (Kg)         42         51         485*75*103	Display					
ENVIRONMENT           Operating temperature         0 < 40 °C           Storage temperature         -25 ~ 70 °C           Relative humidity         0 ~ 95% (no condensing)           Noise (dBA at 1 meter far)         Maximum 56 dB         Maximum 58 dB           Altitude         < 1000m; load derated 1% per 100m, from 1000 ~ 2000m         MECHANICAL DATA           Power module dimensions W*D*H (mm)         3 485*697*398 (7U)         485*697*55 (11U)         485*51*1033           Cabinet dimensions W*D*H (kg)         42         51         0         15	Protection degree					
ENVIRONMENT           Operating temperature         0 ~ 40 ° C           Storage temperature         -25 ~ 70 ° C           Relative humidity         0 ~ 95% (no condensing)           Noise (dBA at 1 meter far)         Maximum 56 dB         Maximum 58 dB           Altitude         < 1000m; load derated 1% per 100m, from 1000 ~ 2000m	Interface					
Storage temperature         -25 ~ 70 ° C           Relative humidity         0 ~ 95% (no condensing)           Noise (dBA at 1 meter far)         Maximum 56 dB         Maximum 58 dB           Altitude         -25 ~ 70 ° C           Maximum 56 dB         Maximum 58 dB           Altitude         -2000m; load derated 1% per 100m, from 1000 ~ 2000m           MECHANICAL DATA           Power module dimensions W*D*H (mm)         436*590*85 (2U)           Power module weight (Kg)         15,3         15,5           Cabinet dimensions W*D*H (mm)         485*697*398 (7U)         485*697*575 (11U)         485*51*1033           Cabinet weight (Kg)         42         51         Total colspan="3">Total colspan="3">To	ENVIRONMENT					
Relative humidity         0 ~ 95% (no condensing)           Noise (dBA at 1 meter far)         Maximum 56 dB         Maximum 58 dB           Altitude         - 1000m; load derated 1% per 100m, from 1000 ~ 2000m           MECHANICAL DATA           Power module dimensions W*D*H (mm)         436*590*85 (2U)           Power module weight (Kg)         15,3         15,5           Cabinet dimensions W*D*H (mm)         485*697*398 (7U)         485*697*575 (11U)         485*751*1033           Cabinet weight (Kg)         42         51         Total Colspan="4">Total Colspan="4">To	Operating temperature					
Noise (dBA at 1 meter far)         Maximum 56 dB         Maximum 58 dB           Altitude         < 1000m; load derated 1% per 100m, from 1000 ~ 2000m           MECHANICAL DATA           Power module dimensions W*D*H (mm)         436*590*85 (2U)           Power module weight (Kg)         15,3         15,5           Cabinet dimensions W*D*H (mm)         485*697*398 (7U)         485*697*575 (11U)         485*751*1033           Cabinet weight (Kg)         42         51         7						
Altitude         <1000m; load derated 1% per 100m, from 1000 ~ 2000m           MECHANICAL DATA           Power module dimensions W*D*H (mm)         436*590*85 (2U)           Power module weight (Kg)         15,3         15,5           Cabinet dimensions W*D*H (mm)         485*697*398 (7U)         485*697*575 (11U)         485*751*1033           Cabinet weight (Kg)         42         51         7∪	•		, , ,			
MECHANICAL DATA           Power module dimensions W*D*H (mm)         436*590*85 (2U)           Power module weight (Kg)         15,3         15,5           Cabinet dimensions W*D*H (mm)         485*697*398 (7U)         485*697*575 (11U)         485*751*1033           Cabinet weight (Kg)         42         51         7				er 100m, from 1000 ~ 2000m	Waxiiiiuiii 38 ub	
Power module dimensions W*D*H (mm)         436*590*85 (2U)           Power module weight (Kg)         15,3         15,5           Cabinet dimensions W*D*H (mm)         485*697*398 (7U)         485*697*575 (11U)         485*751*1033           Cabinet weight (Kg)         42         51         7∪						
Power module weight (Kg)         15,3         15,5           Cabinet dimensions W*D*H (mm)         485*697*398 (7U)         485*697*575 (11U)         485*751*1033           Cabinet weight (Kg)         42         51         70			436*59	0*85 (2U)		
Cabinet weight (Kg)         42         51         70					15,5	
0 ( 0)	Cabinet dimensions W*D*H (mm)	485*697*398 (7U)	485*697*575 (11U)	485*7	751*1033	
		42			70	
Colour RAL 7021	Colour		RAL	7021		



### **GTEC SERVICE**

GTEC supports its customers throughout the whole product life cycle, providing technical assistance and after-sales service at the highest professional standards, so to produce the best partnership experience.



**MAINTENANCE** is an essential activity in order to guarantee a safe and stable load protection. GTEC shows maximum care about this topic, providing the best service in terms of experience, instrumentation and safety level.



Through the dedicated **CALL CENTER**, customers receive prompt answers to any request, and the specialized technicians directly schedule maintenance activities.



The partnership between GTEC and its customers gets consolidated through the **TRAINING SESSIONS** proposal for technical staff, so that each user can operate on the UPSs with maximum consciousness and safety.



Also, in the GTEC Service offers, a **PROJECT CONSULTING** team is available, in order to provide the best solution according to the designer's needs.

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