

USER MANUAL
SUPRA 1005/1505/2005

INTERACTIVE UPS
120V NEMA



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1. SAFETY INSTRUCTIONS**SYMBOLS**

	WARNING / AVERTISSEMENT
	ELECTRICAL SHOCK RISK / RISQUE DE CHOC ÉLECTRIQUE



WARNING: It is required to read and understand this manual. Follow all instructions given in this manual for starting up and operating this product. Only qualified technician must start-up, operate and maintain this product. Keep manuals as a guide for future consults.

WARNING: This product operates with dangerous voltages. It must be installed, operated, and maintained **ONLY** by qualified technicians trained for this kind of products. Service personnel **MUST** know and understand very well all electric risks related to this product. UPS manufacturer or distributor will never be responsible for any accident produced by lack of knowledge or negligent practices at the moment of install, starting up, or maintain this product. UPS manufacturer or distributor is not liable for any damage that might rise from misusing this unit or defective installation.

WARNING: If you are not qualified technician do not try to repair this product.

WARNING: Internal area of this product is locked by screws. Do not try to access inside the UPS unless you are a qualified technician. UPS must be checked, repaired, and maintained by qualified personnel only.

AVERTISSEMENT: Il est nécessaire de lire et de comprendre ce manuel. Suivez toutes les instructions données dans ce manuel pour le démarrage et l'utilisation de ce produit. Seul un technicien qualifié doit démarrer, utiliser et entretenir ce produit. Conservez les manuels comme guide pour les consultations futures.

AVERTISSEMENT: Ce produit fonctionne avec des tensions dangereuses. Il doit être installé, utilisé et entretenu **UNIQUEMENT** par des techniciens qualifiés formés pour ce type de produits. Le personnel de service **DOIT** connaître et comprendre très bien tous les risques électriques liés à ce produit. Le fabricant ou le distributeur de l'UPS ne sera jamais responsable de tout accident causé par un manque de connaissances ou des pratiques négligentes lors de l'installation, du démarrage ou de l'entretien de ce produit. Le fabricant ou le distributeur de l'UPS n'est pas responsable des dommages pouvant résulter d'une mauvaise utilisation de cet appareil ou d'une installation défectueuse.

AVERTISSEMENT: Si vous n'êtes pas un technicien qualifié, n'essayez pas de réparer ce produit.

AVERTISSEMENT: La zone interne de ce produit est verrouillée par des vis. N'essayez pas d'accéder à l'intérieur de l'onduleur à moins d'être un technicien qualifié. L'onduleur doit être vérifié, réparé et entretenu uniquement par du personnel qualifié.

ELECTRICAL SHOCK RISK / RISQUE DE CHOC ÉLECTRIQUE

CAUTION: There are dangerous voltages in the UPS power outlets although the equipment is not plugged into power line.

CAUTION: Inside this equipment, due to internal batteries, there are ALWAYS dangerous voltages, even UPS is OFF and unplugged of power line.

PRÉCAUTION: Il y a des tensions dangereuses dans les prises de courant de l'UPS bien que l'équipement ne soit pas branché sur la ligne électrique.

PRÉCAUTION: À l'intérieur de cet équipement, en raison des batteries internes, il y a TOUJOURS des tensions dangereuses, même l'UPS est éteint et débranché de la ligne électrique.

WARNING EQUIPMENT DISPOSAL: / AVERTISSEMENT ÉLIMINATION DE L'ÉQUIPEMENT

OUT OF SERVICE UNITS: It is strongly recommended to dispose this piece of equipment according to valid directives in your country. At the moment of disposing all pieces need to be managed appropriately to avoid possible environmental damage or for some materials to be recycled.

BATTERIES: Do not throw it to fire (risk of explosion). Do not open the batteries, there are dangerous liquids inside.

UNITÉS HORS SERVICE: Il est fortement recommandé de mettre au rebut cet équipement conformément aux directives en vigueur dans votre pays. Au moment de l'élimination, toutes les pièces doivent être gérées de manière appropriée pour éviter d'éventuels dommages à l'environnement ou pour que certains matériaux soient recyclés.

PILES: Ne pas jeter au feu (risque d'explosion). N'ouvrez pas les piles, il y a des liquides dangereux à l'intérieur.

2. SAFETY & QUALITY STANDARDS

SAFETY - LOW VOLTAGE DIRECTIVE (2014/35/EU)	
UPS Part 1-1: General & Safety UPS in accessible areas	IEC/EN 62040-1
ELECTROMAGNETIC COMPATIBILITY - EMC DIRECTIVE (2014/30/EU)	
UPS, Part 2, Electromagnetic Compatibility:	IEC/EN 62040-2
Low Freq. Conducted Disturbances & Signals:	IEC/EN 61000-2-2
Electrostatic discharge immunity Test:	IEC/EN 61000-4-2 (Air: Level 3, Contact: Level 2)
Radiated radio Frequency immunity:	IEC/EN 61000-4-3 (Level 3)
Electrical Fast Transient / burst immunity:	IEC/EN 61000-4-4 (Level 3)
Surge Immunity:	IEC/EN 61000-4-5 (L-L: Level 2, L-G: Level 3)
UPS Part 3: Methods of operation, specifications, and test requirement	IEC/EN 62040-3
IT Equipment. SAFETY. Part 1: General Requirements	IEC/EN 60950-1
For 220V MODELS:	CE compliant
For 120V MODELS (1005-UL/1505-UL/2005-UL):	UL1778 (by cTUVus)
IP PROTECTION	IP20 (static)
QUALITY MANAGEMENT:	Manufactured under: ISO 9001 : 2000
ENVIRONMENTAL MANAGEMENT:	Manufactured under: ISO 14001 : 2004

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Any modification made by user or operator may affect compliance of the safety and performance certifications listed above. UPS manufacturer is not responsible of any modification made on the product or its accessories after it is manufactured.

Les changements ou modifications non expressément approuvés par la partie responsable de la conformité peuvent annuler l'autorité de l'utilisateur à utiliser l'équipement.

REMARQUE: cet équipement a été testé et déclaré conforme aux limites d'un appareil numérique de classe A, conformément à la partie 15 des règles de la FCC. Ces limites sont conçues pour fournir une protection raisonnable contre les interférences nuisibles lorsque l'équipement est utilisé dans un environnement commercial. Cet équipement génère, utilise et peut émettre de l'énergie de radiofréquence et, s'il n'est pas installé et utilisé conformément au manuel d'instructions, peut causer des interférences nuisibles aux communications radio. L'utilisation de cet équipement dans une zone résidentielle est susceptible de provoquer des interférences nuisibles, auquel cas l'utilisateur devra corriger les interférences à ses propres frais.

Toute modification apportée par l'utilisateur ou l'opérateur peut affecter la conformité des certifications de sécurité et de performance énumérées ci-dessus. Le fabricant de l'onduleur n'est pas responsable de toute modification apportée au produit ou à ses accessoires après sa fabrication.

This product is designed to operate in domestic and commercial environment.

This is a C2 category product. In residential environment, this product may cause radio interference, in this case the user may require taking additional measures.

Ce produit est conçu pour fonctionner dans un environnement domestique et commercial.

Il s'agit d'un produit de catégorie C2. Dans un environnement résidentiel, ce produit peut provoquer des interférences radio, dans ce cas l'utilisateur peut exiger de prendre des mesures supplémentaires.

3. BATTERY MAINTENANCE

- Batteries capacity, in general (of all kinds), decreases with time and use.
- Our products contain high quality batteries only.
- Batteries useful life in our UPS is between 3 and 5 years, considering environment temperature under 25°C and optimal operational conditions. This time can be dramatically reduced by high temperature and other adverse operation condition.
- Batteries life expectancy may be also affected by other operation conditions such as electrical service quality as well as number and kind of equipment connected to UPS.
- Batteries should be periodically tested to check capacity and assure and appropriate back up.

* To enlarge batteries life expectancy, it is recommendable to fully discharge UPS once every 3 months

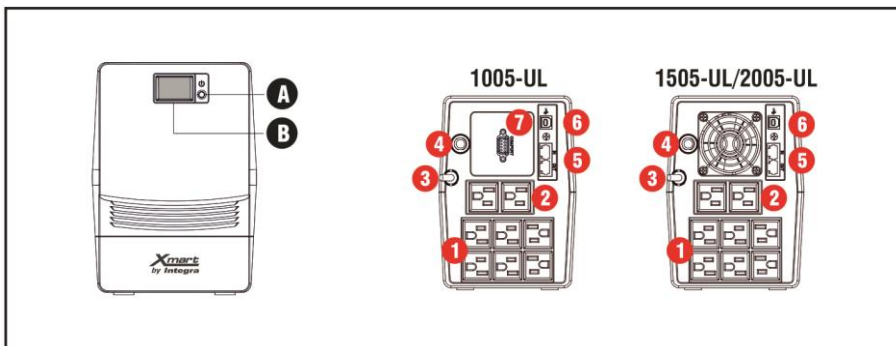
* During long UPS storage recharge batteries according to following table:

STORAGE TEMPERATURE	FREQUENCY	RECHARGING TIME
-25°C a +30°C	Every 4 months	4 h
+30°C a +45°C	Every 2 months	4 h

4. UPS DESCRIPTION

This equipment is known as UPS (Uninterruptible Power Supply). It has 2 main functions: give electrical protection against surges, spikes and some other dangerous failures of electrical main system and provides electrical backup based on internal batteries. In that way products you connect to your UPS will be protected and will receive electrical energy even during failures of main electrical AC system.

This UPS is designed to satisfy all requirements of Personal Computers (PCs). It includes internal voltage regulator to stabilize input AC variations without using internal batteries. Only in presence of important input failures UPS will use internal batteries to provide energy in outlet sockets. In this way batteries life expectancy is longer.



Parts Identification

A.- ON/OFF

B.- LCD Touchscreen

1.- Outputs (battery backup)

2.- Outputs (Surge protected)

3.- AC Input

4.- Input Breaker

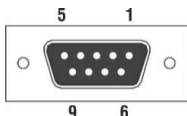
5.- RJ-45 protected sockets

6.- USB port

7.- RS-232 port (1005 Model only)

RS232 COMMUNICATION PORT (1005 Model only)

RS232 Comm. Cable to connect UPS and PC must have 1:1 pin connection.



Serial Port pin Identification:

Pin 2: RX: Data Reception

Pin 3: TX: Data Transmission

Pin 5: GND: Grounding

This UPS will provide backup energy in its outlets when main AC input fails. Runtime will depend on different factors:

- Battery charging level.
- Battery capacity according to the use given and lifetime.
- Load consumption connected to UPS outlets. Higher the output load shorter the runtime.

Under normal condition, when UPS is ON and connected to AC source, UPS will keep batteries fully charged.

NOTE: For Self-protection, all models of this family have a Max. backup time of 240 Minutes, limited by UPS electronic.

5. UPS INSTALLATION

SAVE THESE INSTRUCTIONS – This manual contains important instructions for Models SUPRA 1005/1505/2005 that should be followed during installation and maintenance of the UPS and batteries.

Servicing of batteries should be performed or supervised by personnel knowledgeable about batteries and the required precautions.

When replacing batteries, replace with the same type and number of batteries or battery packs.

CAUTION: Do not dispose of batteries in a fire. The batteries may explode.

CAUTION: Do not open or mutilate batteries. Released electrolyte is harmful to the skin and eyes. It may be toxic.

CAUTION: A battery can present a risk of electrical shock and high short-circuit current. Contact with any part of a grounded battery can result in electrical shock. The following precautions should be observed when working on batteries:

- a) Remove watches, rings, or other metal objects.
- b) Use tools with insulated handles.
- c) Wear rubber gloves and boots.
- d) Do not lay tools or metal parts on top of batteries.
- e) Disconnect charging source and load prior to installing or maintaining the battery.
- f) Remove battery grounds during installation and maintenance to reduce likelihood of shock. Remove the connection from ground if any part of the battery is determined to be grounded.

CAUTION: RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS

The socket-outlet shall be installed near the equipment and shall be easily accessible.

CONSERVEZ CES INSTRUCTIONS – Ce manuel contient des instructions importantes pour les modèles SUPRA 1005/1505/2005 qui doivent être suivies lors de l'installation et de l'entretien de l'onduleur et des batteries.

L'entretien des batteries doit être effectué ou supervisé par du personnel connaissant les batteries et les précautions requises.

Lors du remplacement des piles, remplacez-les par des piles ou des blocs-piles du même type et du même nombre.

ATTENTION: Ne jetez pas les piles au feu. Les piles peuvent exploser.

ATTENTION: Ne pas ouvrir ou mutiler les batteries. L'électrolyte libéré est nocif pour la peau et les yeux. Il peut être toxique.

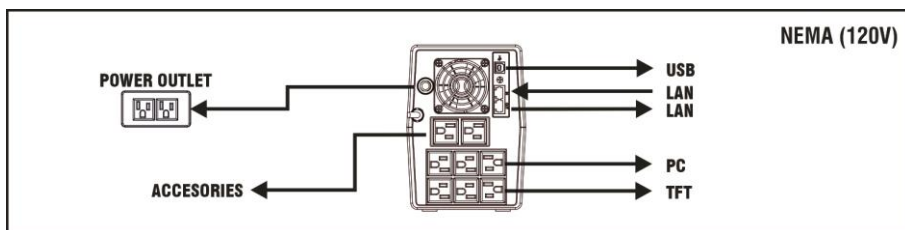
ATTENTION: Une batterie peut présenter un risque de choc électrique et de courant de court-circuit élevé. Le contact avec n'importe quelle partie d'une batterie mise à la terre peut entraîner un choc électrique. Les précautions suivantes doivent être observées lorsque vous travaillez sur des batteries :

- a) Retirez montres, bagues ou autres objets métalliques.
- b) Utilisez des outils avec des poignées isolées.
- c) Portez des gants et des bottes en caoutchouc.
- d) Ne posez pas d'outils ou de pièces métalliques sur les batteries.
- e) Déconnectez la source de charge et la charge avant d'installer ou d'entretenir la batterie.
- f) Retirez les masses de batterie pendant l'installation et l'entretien pour réduire la probabilité de choc. Retirez la connexion de la terre si une partie de la batterie est déterminée comme étant mise à la terre.

ATTENTION : RISQUE D'EXPLOSION SI LA BATTERIE EST REMPLACÉE PAR UN TYPE INCORRECT. JETEZ LES PILES USAGÉES SELON LES INSTRUCTIONS

La prise de courant doit être installée à proximité de l'équipement et doit être facilement accessible.

- This UPS must be installed indoor with controlled environment free of excessive dust and, corrosive air.
- Do not install in outdoor. Keep UPS working under operational conditions listed in specifications table of this manual. Keep out of direct sun light, water, and heat sources.
- Do not install UPS close to PC screen to avoid interference. UPS must be at least at 20cm from screen.
- Connect LAN cable to RJ45 port in this UPS identified as IN. Connect RJ-45 out to your PC LAN socket.
- Plug power cord of this UPS to AC source socket.
- Plug your products to UPS AC outlets.
- This unit **MUST NOT** be installed into closed boxes/cabinets that avoid fresh air access. During normal operation, this unit needs fresh air to flow through ventilation system (Vents) to cool power circuits. Installing this unit in a closed box/cabinet makes inner air to be recycled without refreshing, increasing inside temperature, exceeding operation max. temperature, and causing permanent damage to the UPS.

**IMPORTANT WARNINGS / AVERTISSEMENTS IMPORTANTS:**

- Make sure UPS is plugged to AC source compatible with UPS electrical specifications. Check UPS specs in UPS label.
- Make sure your products input voltage is compatible with UPS voltage output.
- Check total load in Watts to be connected to UPS is not higher to maximum UPS capacity.
- Do NOT plug neither laser printers nor copiers to this UPS. This equipment are high load products will overload your UPS.
- Assurez-vous que l'UPS est branché sur une source CA compatible avec les spécifications électriques de l'UPS. Vérifiez les spécifications UPS sur l'étiquette UPS.
- Assurez-vous que la tension d'entrée de vos produits est compatible avec la tension de sortie de l'onduleur.
- Vérifiez que la charge totale en watts à connecter à l'UPS n'est pas supérieure à la capacité maximale de l'UPS.
- Ne branchez PAS d'imprimantes laser ni de copieurs sur cet onduleur. Ces équipements sont des produits à forte charge qui surchargeront votre onduleur.

6. OPERATION

- Once UPS is installed and connected according to section 4 of this manual, please turn UPS on by ON/OFF button in front panel. Front panel green LED must turn ON.
- Turn your products ON one by one.
- After finishing your products will be fully protected by the UPS.

This UPS has COLD-START function that allows to turn UPS on even during a failure in the main AC source.

7. LCD

LCD shows valuable information about Utility and UPS data but also provides alarm codes for easy troubleshooting. User can skip from screen to screen by simple touching LCD.

Note: Below table shows screens for 220V model. In 120V models, input & output values will be close to 120V.

UTILITY & UPS INFORMATION		ALARM & ERROR CODES		
	NORMAL MODE	BATTERY MODE	ALARM BEEP	CODE TROUBLESHOOTING
OUTPUT SALIDA			Continuous Beep continuo	F01 Output Shorcircuit: Remove faulty equipment from UPS output
INPUT ENTRADA			Continuous Beep continuo	F02 Overload: Remove non critical equipments from UPS output
LOAD CONSUMO			Continuous Beep continuo	F03 Overcharge: Call technical service
BATTERY BATERIA			Continuous Beep continuo	F04 Battery Low: Recharge during 6 hours. If not solved call tech. service
OVERLOAD SOBRECARGA			Continuous Beep continuo	F05 Output Hight under battery mode: Call Tech. Service
Mode Symbol Símbolo de Modo			Continuous Beep continuo	F06 High Temperature: Call Tech. Service

8. CONTROL SOFTWARE

Most of the models of this UPS family come with USB port to communicate with your PC. In that way UPS can be monitored and configured. Your PC can be shutdown automatically when input AC failure is detected saving your information and providing a controlled shutdown. Event log and alarms can also be monitored from your PC. Control software can be downloaded from our website: www.xmart-ups.com. We keep updated last updated version. User manual and installation manual is also available in our web.

Our software is available in different versions for: Windows, Mac OSX, Linux, and Unix.

9. AFTER SALES SUPPORT & WARRANTY

Support: If a failure or problem is detected please check troubleshooting section in user manual. If problem cannot be solved, please contact authorized service center or authorized dealer.

Batteries: Rechargeable batteries can be charged and discharged hundreds of times. However, they will eventually wear out. This is not a defect or failure so that batteries wear out is not covered by this warranty.

Battery lifetime will depend on operative conditions like working temperature, type, and frequency of discharging cycles. Higher the temperature shorter will be the lifetime. Frequent and deep discharging cycles also will short lifetime. For critical applications batteries should be revised and replaced periodically. Long storage (longer than 6 months) without required recharging will wear out batteries. This situation is not covered by this limited warranty since this is not considered as a defect. Check recharging instructions on user manual.

Conditions Limited Warranty "PLUS"

1.- Subject to the conditions of this limited warranty, this product is warranted to be free from defects in materials and workmanship at the time of XMART supplies the product.

- In Europe, warranty time is 2 years on electronic parts and 2 years on internal batteries from XMART invoice date.
- In America, standard warranty times could vary depending on country/region or can be extended by purchasing warranty options. Please check warranty plans and extensions with your local distributor.

2.- If during the warranty period, this product fails to operate under normal use and service, due to defects in materials or workmanship, authorized distributor or service center will, at their option, either repair or replace the product in accordance with terms and conditions stipulated herein. Transportation expenses are not covered by this limited warranty.

3.- Warranty is valid only if the original invoice issued by XMART, specifying date of purchase, serial number, and name of the dealer, is presented with the product to be revised. XMART and authorized partners reserve the right to refuse warranty service if any of this information has been removed, changed, or missing in original invoice document.

4.- If product is repaired or replaced, repaired, or replaced product will be warranted for the remaining time of the original warranty or for 90 days on repaired part from date of repair, whichever is longer.

5.- XMART or their distribution/service partners reserve the right to charge handling fee if returned product is free of failure or it is out of warranty because any of the reasons described in this warranty.

6.- If product is out of warranty a reparation proposal will be sent to the user for his approval. If proposal is not accepted, service center will keep product available for the user during 60 continuous days. After this period product would be disposed and user will not be able to rise any claim.

7.- Rechargeable batteries, like included in this product, will definitively wear out even under normal operation. This is not a defect or failure, so it is not covered by this warranty.

8.- This warranty does not cover batteries wear out caused by improper or long storage (over 6 months without required recharging indicated in product manual). Even performing recharging procedure this product cannot be storage longer than 18 months. Problems on batteries caused by this kind of long storage are not covered by this warranty.

9.- This warranty does not cover product failures caused by installations, modifications or repair performed by non-authorized person. If product is open by not authorized technician warranty will be considered void. This warranty does not cover failure caused by inadequate installation or maintenance, misuse, accidents, fire, or floods.

10.- This product can include protection devices like input fuse or input breaker. Activation of this kind of devices is not a failure it is caused by an improper product installation. Input fuse or breaker reset, or replacement is not covered by this warranty.

11.- This warranty does not cover damages produced during transportation from user to technical service caused by improper packing of the product by user.

12.- Warranty terms and conditions cannot be modified or extended by third parties without written approval of XMART.

Limited Warranty "PLUS"

- XMART does not warrant that the operation of this product will be uninterrupted or error-free during its lifetime. If product fails to work, the maximum liability of XMART under this limited warranty is expressly limited to the lesser of the price you have paid for the product or the cost of repairing or replacement of any hardware components that malfunction in conditions of normal use.

- In no event will XMART be liable for any damages caused by the product or the failure of the product to perform, including any lost profits or savings or special, incidental, or consequential damages. XMART is not liable for any claim made by a third party to XMART or to final user.

- XMART is not responsible for damage that occurs because of your failure to follow the instructions intended for this hardware product.

- XMART is not responsible for damage that occurs because of your failure to follow the instructions intended for this hardware product.

10. TECHNICAL SPECIFICATIONS

INTERACTIVE UPS	1005	1505	2005
Capacity / Capacidad	1,000VA / 600W	1,500VA / 900W	2,000VA / 1200W
Input / Entrada			
Nominal Voltage / Voltaje Nominal	110 Vac - 120 Vac (Default 120 Vac)		
Voltage Range / Rango de Voltaje	89-145 Vac		
Frequency / Frecuencia	60 Hz / 50 Hz: Auto Sensing / Autodetección		
Powercord / cable entrada	6 feet (1.83m) NEMA5-15P		
Generator Compatible / Compatible con motogeneradores	Yes / SI		
Output / Salida			
Voltage / Voltaje	+/- 10%		
Frequency / Frecuencia	60Hz (+/- 1Hz) - 50Hz (+/- 1Hz)		
Transfer Time / Tiempo Transferencia	2 - 6 ms typical / típico		
Waveform / Forma de Onda (Normal Mode)	Sinewave / Sinusoidal		
Waveform / Forma de Onda (Battery Mode)	Simulated Sinewave / Sinusoidal Sintetizada		
Batteries / Baterías			
Type / Tipo	Sealed Lead Acid - Maintenance Free (VRLA AGM) / Acido Plomo Sellada Sin Mtto. (VRLA AGM)		
Capacity / Capacidad	7AH	9AH	9AH
Quantity / Cantidad	2 pcs/pzs	2 pcs/pzs	2 pcs/pzs
Back-up Time Typical / Autonomía Típica (N1*)	40 min. max.	55 min. max.	55 min. max.
Recharge Time / Tiempo de Recarga	4-6 hours to 90% capacity / 4-6 Horas hasta 90% de capacidad		
Protections / Protecciones	Deep discharge and overcharge / Descarga Profundas y Sobre-Cargas		
Alarms-Indications / Alarmas-Indicaciones			
Interface / Interfaz	Touch LCD / Pantalla LCD táctil		
Acoustic Alarm / Alarma Sonora	Battery Mode / Low Battery / Overload / Battery Replacement / UPS Fault		
Operation Mode / Modo de Operación	Dedicated symbols for each operation mode on LCD / Modo de operación en LCD		
Alarms / Alarmas	Alarm & fault codes are presented on LCD / Alarmas y códigos de falla en LCD		
LCD Information / Información en Pantalla	Input/Output Voltage, UPS mode, Battery level (%), load (%), Alarm codes // Voltajes de entrada y salida, Nivel de baterías (%), Carga (%), Alarmas		
Protections / Protecciones			
Input Circuit Breaker / "Breaker" de Entrada	With Reset / Rearmable		
Surge/Spikes Protection (Line H-N)	Power Outlet with surge & spikes protection: L-N		
Protección contra Picos / Rayos (Línea L-N)	Tomas de Salida Protegidas contra Picos/Rayos: L-N		
Surge & Spikes Prot. / Prot. Picos & Rayos (RJ11/RJ45)	Tel/Internet/Ethernet RJ45/RJ11		
Total Surge Suppression / Supresión Total	> 758J		
Features / Funcionalidades			
Power Outlets / Tomas de Salida	8 x NEMA5-15R (6 with Backup + 2 Surge Protected)		
1005 / 1505 / 2005 - NEMA 120V (UL1778)			
LCD Touch Screen / LCD Táctil	Touch LCD to go to next value on screen / Tocar el LCD para ir al siguiente valor en pantalla		
Communication / Comunicación	USB+RS232	USB	USB
Software / Software	Compatible: Windows family; Mac OS; Linux; Unix		
Operating / Condiciones de Operación:	< 95% RH / 0-40 °C / < 40 dB		
Product Size & Net Weight (DxWxH)	325 x 135 x 185 mm	325 x 135 x 185 mm	325 x 135 x 185 mm
Dimensiones & Peso Neto del Producto	8.5 Kg	10.5 Kg	11.2 Kg
Operating / Condiciones de Operación:	< 95% RH / 0-40 °C		
Acoustic Noise / Ruido Acustico	≤ 40 dB @ 1 m	≤ 45 dB @ 1 m	≤ 45 dB @ 1 m
Operating Altitude / Altura Operativa	0-2000m (Over sea level / Sobre el nivel del mar)		
Packing / Empaque: 1 unit per carton / Cartón individual			
Unit Size & Gross Weight (DxWxH)	399 x 198 x 280 mm	399 x 198 x 280 mm	399 x 198 x 280 mm
Dimension & Peso Bruto Unitario	9 Kg	10.8 Kg	11.8 Kg
Half Pallet Information / Información Medio Pallet	60pcs / 555Kg	60pcs / 663Kg	60pcs / 723Kg
DxWxH	120 x 100 x 127cm	120 x 100 x 127cm	120 x 100 x 127cm
Full Pallet Information / Información Full Pallet	105pcs / 960Kg	105pcs / 1149Kg	105pcs / 1254Kg
DxWxH	120 x 100 x 225cm	120 x 100 x 225cm	120 x 100 x 225cm
Safety & Standards			
American	UL1778 (certified by cTUVus)		
Conduction & Radiation (Models 120V)	FCC Part 15 Class A		
Quality & Environment	RoHS / ISO9001 & ISO14001		
Tech. Specs. may change without further notice or to comply with special project requirements. Las especif. pueden cambiar sin aviso previo o para cumplir con proyectos.			
N1*: Times for 1PC + TFT load / Tiempos para 1PC + Pantalla TFT			

NOTES:

USA
Miami FL 33196, USA
sales@xmart-ups.com

www.xmart-ups.com

EUROPE
Sabadell, Barcelona. 08202. Spain
sales@xmart-ups.com

VER. 2303.09-AP-ENG

LATAM
Santiago de Chile, Chile
sales@xmart-ups.com