

## Interactive

# SUPRA-LCD 1100/1600/2100 VA

Line Interactive UPS, with built-in voltage regulator to enlarge the operation input range reducing the battery usage. Offers a modern LCD touch screen for an efficient UPS supervision and AC Line parameters. A complete power protection center for your equipment.



## All Information at your fingertips !!!

### **Touch screen LCD:**

*An avant garde touch screen allows supervising parameters of UPS and AC line.*

*With a simple touch, the screen will sequentially show all available data.*

### **Total Power Protection:**

Besides voltage fluctuations, Supra-LCD protects all lines against spikes and surges, not only power outlets are protected, but also RJ11 ports, to protect the connection with routers.

### **Line Interactive Technology:**

Internal voltage stabilizer regulates AC input to generate an optimal UPS output without the need of using batteries. In this way, input range is wider than similar UPS without interactive technology. Only when AC input is out of this wider input range, Supra go to battery mode to provide reliable energy to your protected products. This gives an input range about 15% wider and battery life longer than UPS without interactive technology. This performance is possible thanks to the modern design of this UPS family based in a Control Microprocessor, which manages the operation of each unit in the best possible way.

### **Auto-Recovery:**

A long blackout could discharge batteries completely forcing UPS to power-off. When AC recovery is detected, Supra-LCD is able to restart automatically without the need of manual operation. This feature is especially useful in unattended applications.

### **Cold Start:**

This function allows Supra-LCD family to power your equipment even without power in AC Input, like a small power generator.

### **Control Software:**

Allows to configure and manage all UPS functions. Besides it can close files and programs, as well as shutdown operating systems and your computer equipment, during long power outage. Control software requires the UPS to have either USB or RS-232 port.

## Technical Features / Características Técnicas

**A.- ON/OFF Switch / Interruptor ON/OFF**

**B.- LCD Display / Pantalla LCD**

1.- Battery supported outlets / Salidas respaldadas por baterías

2.- Surge protected outlets (no battery) / Salidas protegidas contra picos (sin batería)

3.- AC Input / Entrada Corriente Alterna

4.- Input breaker / Disyuntor de entrada

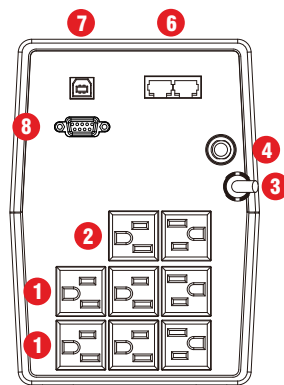
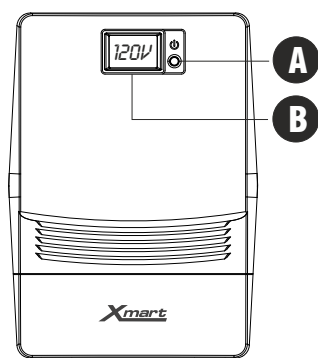
5.- Input fuse / Fusible de entrada

6.- Surge protected socket / Conector protegido RJ45

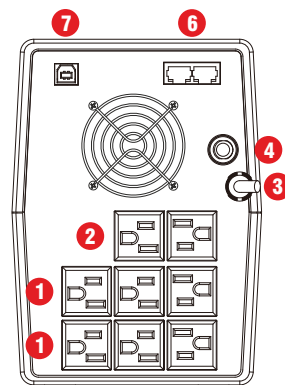
7.- USB

8.- RS-232

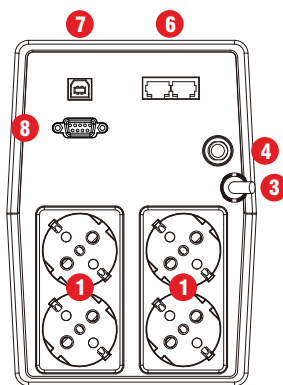
## Panel Trasero



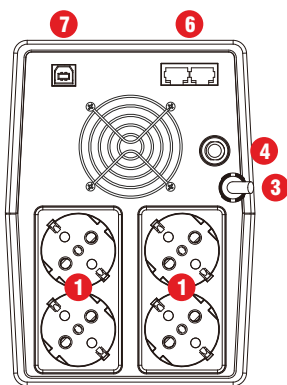
**SUPRA 1101  
NEMA (120V & 220V)**



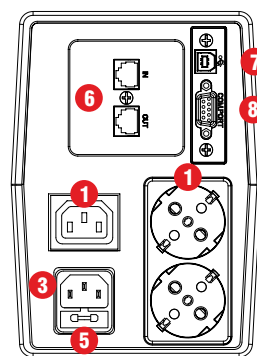
**SUPRA 1601 / 2101  
NEMA (120V & 220V)**



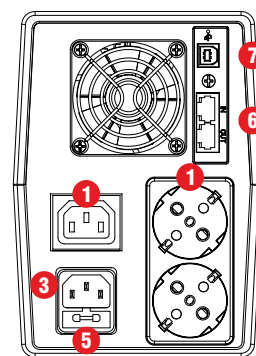
**SUPRA 1101  
SCHUKO (220V)**



**SUPRA 1601 / 2101  
SCHUKO (220V)**



**SUPRA 1103  
IEC+SCHUKO (220V)**



**SUPRA 1603 / 2103  
IEC+SCHUKO (220V)**

### Standards & Certifications: CE

#### IEC Low Voltage Directives

IEC60950-1:2001: Information Technology Equipment – Safety-Part1: General Requirement

EN62040-1-1:2003: Uninterruptible Power Systems (UPS) Part 1-1: General and Safety requirements for UPS used in operator access areas

#### IEC EMC Directives

EN 62040-2: 2006: Uninterruptible Power Systems (UPS) Part 2: Electromagnetic compatibility class C2 (EMC)

IEC 61000-4-2: 2001: Electrostatic discharge immunity test

IEC 61000-4-3: 2002: Radiated, radio-frequency electromagnetic field immunity test

IEC 61000-4-4: 2004: Electrical fast transient/burst immunity test

IEC 61000-4-5: 2005: Surge immunity test

IEC 61000-2-2: 2002: Compatibility levels for low-frequency conducted disturbances and signaling in public low-voltage power supply systems

## Technical Features / Características Técnicas

| INTERACTIVE UPS                                          | 1100                                                                                                                                                | 1600               | 2100               |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|
| Capacity / Capacidad                                     | 1.100VA / 600W                                                                                                                                      | 1.600VA / 900W     | 2.100VA / 1200W    |
| Input / Entrada                                          |                                                                                                                                                     |                    |                    |
| Voltage / Voltaje                                        | Model 120V: (89-145 Vac) - Model 220V/230V: (162-268Vac)                                                                                            |                    |                    |
| Frequency / Frecuencia                                   | 60 Hz / 50 Hz: Auto Sensing / Autodetección                                                                                                         |                    |                    |
| Generator Compatible / Compatible con motogeneradores    | Yes / Si                                                                                                                                            |                    |                    |
| Output / Salida                                          |                                                                                                                                                     |                    |                    |
| Voltage / Voltaje                                        | Model 120V: +/- 10% - Model 220V/230V: +/- 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          |
| Typical Back-up Time / Autonomía Típica (N1*)            | 40 min. max.                                                                                                                                        | 48 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 Suge Suppression / Supresión Total                 | 120V Model: (> 758J) - 220V & 230V Models : (> 175J)                                                                                                |                    |                    |
| Features / Funcionalidades                               |                                                                                                                                                     |                    |                    |
| Power Outlets per model / Tomas por modelo               |                                                                                                                                                     |                    |                    |
| Models: 1101 / 1601 / 2101 - NEMA 120V & 220V            | 8 x NEMA5-15R (6 with Backup + 2 Surge Protected)                                                                                                   |                    |                    |
| Models: 1101 / 1601 / 2101 - SCHUKO 230V                 | Schuko x 4 (all battery backup & protected)                                                                                                         |                    |                    |
| Models: 1103 / 1603 / 2103 - IEC+ SCHUKO 230V            | IEC x 1 + Schuko x 2 (all battery backup & protected)                                                                                               |                    |                    |
| LCD Touch Secreen / 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                                                                                                     |                    |                    |
| 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                                       |                                                                                                                                                     |                    |                    |
| For 220V & 230V                                          | CE (Low Voltage Directive 2006/95/EC & EMC Directive 2004/108/EC)                                                                                   |                    |                    |
| Conduction & Radiation (Models 220V/230V)                | IEC / EN 62040-2 (Class 2 EMC)                                                                                                                      |                    |                    |
| Quality & Enviroment                                     | RoHS / ISO9001 & ISO14001                                                                                                                           |                    |                    |

Tech. Specs. may change without further notice or to comply with special project requirements. Las especific. pueden cambiar sin aviso previo o para cumplir con proyectos.

N1\*: Times for 1PC + TFT load / Tiempos para 1PC + Pantalla TFT