

STUDIO UPS

Reliable protection
for home and office.
Always **ON**



Industrial Motors

Commercial &
Appliance Motors

**Automation &
Systems**

Energy

Transmission &
Distribution

Coatings

Driving efficiency and sustainability



STUDIO UPS

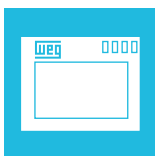
Power outages are not an option. Regardless of your business size or industry, downtime compromises results and cripples operational efficiency.

Minimize these risks with the Studio UPS line. Engineered with a unique design, the Studio series features an intuitive LCD display, quick-access menu keys, and instant status LEDs—delivering high-performance protection for your equipment.





Highlights



Interactive LCD display: the Studio line enhances user experience, providing real-time monitoring. Easily track operating modes (*Utility* or *Battery*), battery charge levels, bypass status, and active alarms.



Automatic frequency sensing: when connected to the grid, the UPS automatically detects and adjusts to 50 Hz or 60 Hz input, ensuring seamless compatibility with your local utility frequency.



Cold start function: when utility power is unavailable, it is possible to power up the loads connected to the UPS output in *Inverter* mode.

Power ratings

- 1,000 VA
- 2,000 VA



Protection features

- Deep discharge protection: to prevent permanent battery damage during extended outages, the UPS automatically shuts down the output when the battery reaches its critical low-voltage threshold. The system resumes operation automatically once utility power is restored to safe levels.
- Overcharge protection: an integrated battery management system preserves cell life by monitoring charge levels. The charger deactivates automatically upon reaching full capacity, preventing overcharging and extending the battery's service life.
- Short-circuit protection: in *Inverter* mode, the UPS features an automated shutdown to protect connected loads against short circuits. In *Utility* mode, the system is further shielded by an input fuse that clears overcurrent faults before switching to *Battery* mode, ensuring robust protection across all operating conditions.

Applications

The Studio UPS provides peace of mind for all your needs, whether at work or at home. Do not let power fluctuations disrupt your routine—rely on Studio UPS to safeguard your hardware and data.



PBX & telephony systems



Workstations & point of sale



Gaming consoles



Computers, TVs, and modems



Webcams & security cameras



Home theaters & audio equipment

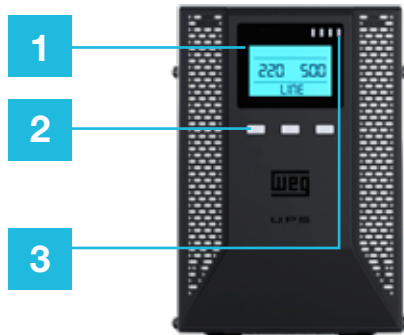
Characteristics

- **Microprocessor controlled:** the Studio UPS features high-performance processing and Pulse Width Modulation (PWM) technology for precise power regulation.
- **Online regulation:** using interactive output voltage control, the Studio UPS maintains a stabilized RMS value regardless of load variations or battery conditions, ensuring a consistent power supply for your equipment.
- **Self-diagnostics:** the system continuously monitors utility power quality, battery health, and output integrity. If an anomaly is detected, the UPS automatically adjusts for optimal protection and alerts the user.
- **Auto-restart:** the UPS automatically initiates and powers the output as soon as it is plugged into a live outlet, requiring no manual intervention. This provides convenience and promptness, allowing your equipment to be protected in a matter of seconds.
- **High-durability sealed batteries:** equipped with maintenance-free Valve Regulated Lead-Acid (VRLA) batteries. In addition, the UPS features an automatic charging system that remains active even when the UPS is turned off, ensuring the unit is always mission-ready.
- **Integrated control panel:** the Studio UPS features an integrated control panel with LED status indicators for the operating modes. A timed power button prevents accidental shutdowns while simplifying daily operation.
- **DC Start:** provides autonomous startup capability without utility power. This is especially useful in emergency situations, as it ensures that your devices remain powered even during power outages.
- **Visual and audible alarms:** stay informed of critical events with bright LED indicators and clear audible beeps. This helps you quickly identify problems and take the necessary steps to protect your equipment.
- **Integrated AVR (Automatic Voltage Regulator):** the integrated AVR maintains a constant output voltage across a wide input range. This minimizes battery usage and extends the equipment service life, providing higher efficiency and reliability.



Diagrams

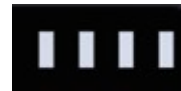
Front panel



1 - LCD display: status and parameter identification

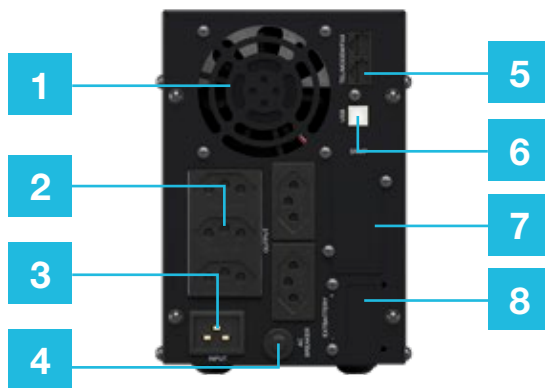


2 - Quick access buttons: fast navigation of UPS functionalities



3 - LED indicators: visual array for instant operational status

Rear panel



1 - Cooling fan

2 - Output outlets: equipped with 5 NBR 14136 standard outlets

3 - Utility input: power cord for connection to the main grid (NBR 14136 standard)

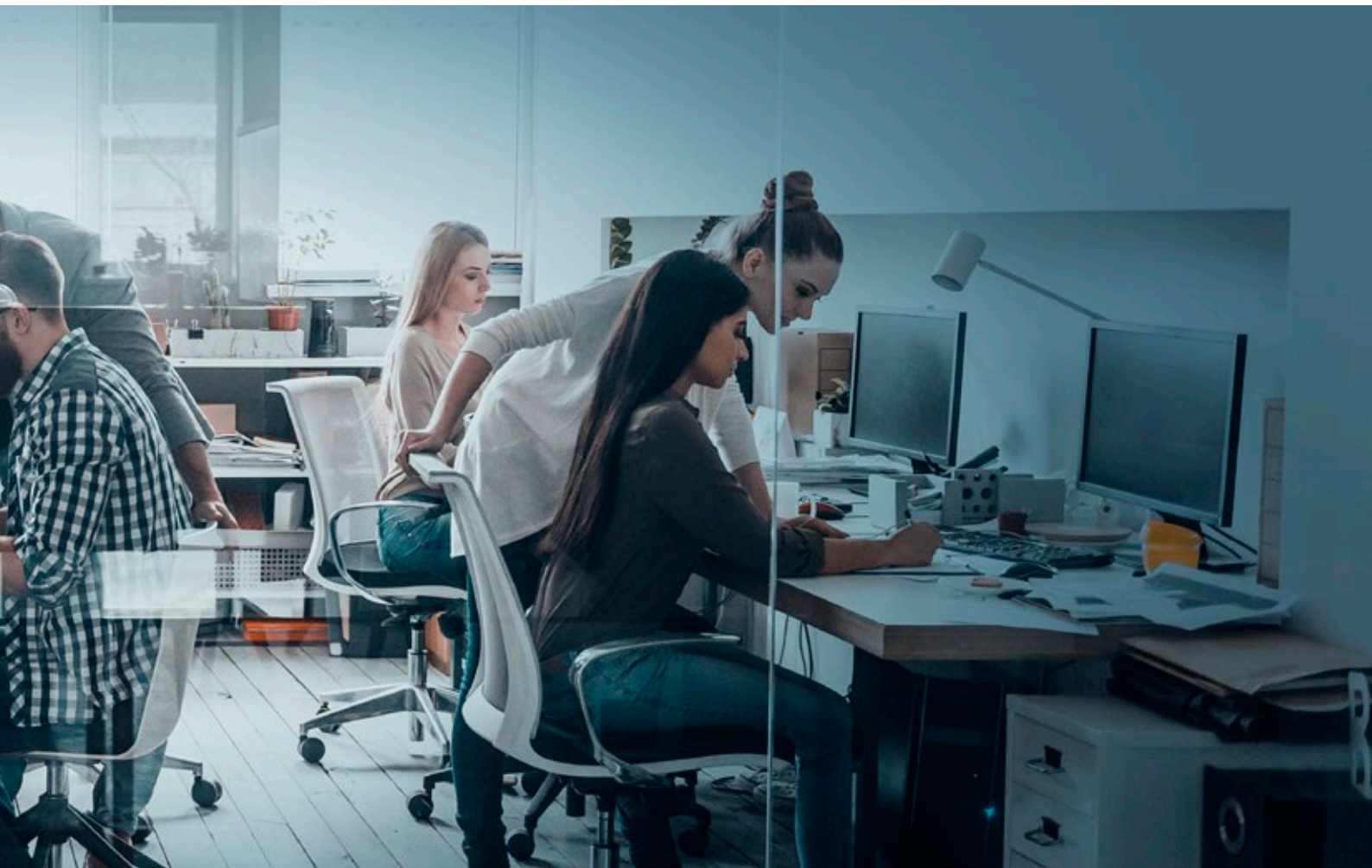
4 - Input fuse: protection against input current surges

5 - Surge protector / line filter

6 - USB type-B port: parameter monitoring

7 - SNMP communication slot

8 - External battery connector: for extended runtime modules



Technical specifications

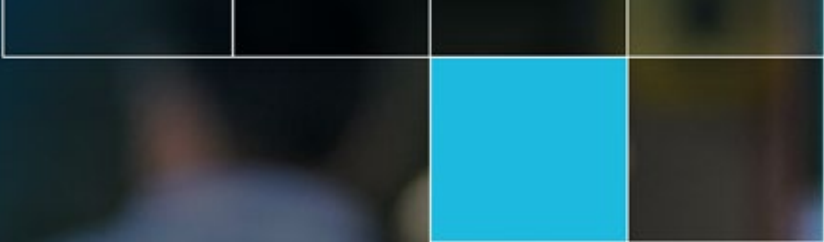
General information				
Model	USTW001011030200	USTW001022030200	USTW002011030200	USTW002022030200
Apparent power	1,000 VA		2,000 VA	
Active power	800 W		1,600 W	
Item				
Input				
Nominal voltage	110 V _{AC} ±15%	220 V _{AC} ±15%	110 V _{AC} ±15%	220 V _{AC} ±15%
Frequency	50 Hz / 60 Hz (automatic recognition), 50 Hz / 60 Hz ± 5% (adjustable)			
Output				
Output voltage	110 V _{AC} ±15%	220 V _{AC} ±15%	110 V _{AC} ±15%	220 V _{AC} ±15%
Power factor	0.8			
Frequency	50 / 60 Hz ± 0.3 Hz (adjustable)			
Waveform	Line Interactive Sine Wave			
Harmonic distortion	≤ 5% (linear load)			
Transfer time	≤ 10ms			
Eco mode	Adjustable (<3% load) - activates in 80 seconds			
No-load shutdown	Adjustable (<3% load) - shuts down in 80 seconds			
Batteries				
Standard model	DC voltage	24 V	36 V	
	Type and quantity	12 V / 7 Ah x 2	12 V / 9 Ah x 3	
	Charging current	1 A		
Recharge time	8 hours			
Discharge voltage	Single battery 10.2 V _{DC} (default) ± 0.3 V _{DC} , 9.6 ~ 11.5 V _{DC} (adjustable via rear panel)			
Alarms				
Battery mode	Beeps every 5 seconds, repeating every 60 seconds			
Low battery	Beeps every 0.16 seconds (rapid beep)			
Overload	Beeps every 2 seconds (long beep)			
Protections	Undervoltage, overvoltage, overload, and short circuit			
Communication interface				
Communication ports	USB port (type B) and Ethernet port (RJ45)			
SNMP (optional)	Power manager (optional)			
Protocol	Modbus-RTU via USB port (type B)			
Frame				
UPS dimensions (mm) - H x W x D	215 x 144 x 345		215 x 144 x 410	
Net weight (kg)	14,6		21,3	
Weight without battery (kg)	10		16	
Weight with battery (kg)	12		19	
Noise level	≤ 50 dB (1 meter)			
Humidity	10 ~ 90% RH - 0 ~ 40 °C (non-condensing)			
Protection rating	IP20			

Notes: 1) Maximum peak power supported by the UPS. UPS power and runtime ratings were sized for IT loads (its primary application); therefore, the reported values are for reference and may change according to the configuration of the equipment used. Thus, we recommend performing a runtime test after the batteries are fully charged (24 hours on and two recharge cycles) to identify the perfect system operation and the runtime value obtained for your actual application (which may be higher or lower than the values in the table).

2) Due to voltage variations in single-phase grids in Brazil (110/115/120/127 V), Studio UPS units leave the factory programmed to operate at a nominal voltage of 115 V_{AC}.

3) Runtime values are averages and refer to a typical configuration consisting of 1 Onboard PC + 1 17" LCD monitor and fully charged batteries. Technical specifications in this catalog are subject to change without notice.





Global presence

is essential, as much
as understanding
your needs.



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The values shown are subject to change without prior notice.
The information contained is reference values.