

# ZGR TOWER PRO 1 - 3 KVA

## ONLINE SINGLE-PHASE UPS

**ZGR TOWER PRO** double conversion Online technology for maximum reliability and protection

ZGR TOWER PRO uses double conversion Online technology that completely isolates mains voltage and frequency variations and interferences that may appear in the power grid, providing high-quality voltage and frequency to your devices.

They are tower format, include automatic self-test and three optimized battery charge levels, in addition to ECO Mode.

Ideal for business continuity applications that require long battery operation.

It is possible to extend the autonomy several hours using the LBT (Long Back Up Time) model with a reinforced battery charger.

**PF 0.9**



### Applications



### Characteristics

- Power factor of 0.9
- Pure sinewave output
- Intelligent Port for SNMP communications
- Long autonomy models
- 1, 2 and 3 kVA
- 3-level intelligent charger
- LCD display
- ECO function with performance > 96 %
- Cold Start and Auto Restart Function
- Management and monitoring via software
- Self-battery and UPS diagnosis of operating state
- Double conversion online (Rectifier / Inverter)
  - It completely isolates customer loads from mains voltage, frequency and noise variations from the power grid.
- Programmable output off function
  - Guarantees autonomy for priority loads.
- Frequency conversion function

### TECHNICAL SPECIFICATIONS

Model	ZGR TOWER PRO		
Power	1000 VA / 900 W	2000 VA / 1800 W	3000 VA / 2700 W
Power factor	0.9		

### INPUT ELECTRICAL CHARACTERISTICS

Voltage range	160 - 300 Vac (allows use with generators) single phase
Frequency	45 - 65 Hz (auto detecting)
Power factor	> 0.98

### OUTPUT ELECTRICAL CHARACTERISTICS

Nominal voltage	208 / 220 / 230 / 240 Vac single phase
Frequency (battery mode)	50 / 60 Hz ± 0.02 Hz
Waveform (battery mode)	Pure sinewave
THD harmonic distortion (100% load)	< 3 % linear / < 5 % non linear
Transfer time	0ms battery / < 4 ms bypass
Permissible peak current	3:1

### EFFICIENCY

Inverter mode	Up to 92 %
---------------	------------

### BATTERY

Type / Capacity	24 V / 9 Ah (36 V -LBT)	48 V / 9 Ah (72 V -LBT)	72 V / 9 Ah (96 V -LBT)
Charge time	5 h / 90 %		
Protection	Overload and deep discharge		
Autonomy <sup>(1)</sup>	10 min up to various hours (expandable with additional battery modules)		

### MONITORING

Informative	LED + LCD display
Alarms	Acoustics depending on alarm
Software	Windows / Linux / MAC

### CONNECTIONS

Input	1x IEC / 1x Anderson (for long autonomy batteries)		
Output equipment internal battery	4x IEC (2 programmable)	8x IEC (4 programmable)	8x IEC (4 programmable)
Output LBT equipment	4x IEC (2 programmable)	4x IEC (2 programmable)	4x IEC (2 programmable)
Protection	Modem / LAN RJ45 (optional)		
Communication	USB and RS232 (software monitoring)		
Intelligent port	Yes (SNMP optional / dry contacts)		

### FUNCTIONS

On/OFF with battery (Cold Start)	Yes (allows UPS to run without mains power)
Auto Restart	Yes (restarts UPS functions after a failure or deep battery discharge)
Parallelable	No
Frequency converter 50 - 60 Hz	Yes
Programmable outputs	Yes

### ENVIRONMENTAL AND MECHANICAL CHARACTERISTICS

Cooling	Forced fan cooling (PWM speed control)		
Operation temperature	0°C - +40°C		
Noise level (at 1 m)	< 50 dB		
Relative humidity	0 - 95 % without condensation		
Dimensions (WxHxL)	144 x 215 x 300 mm	191 x 335 x 470 mm	191 x 338 x 470 mm
Weight approx.	9.2 kg	19.5 kg	26.5 kg
Dimensions models long range (W x D x H)	144 x 215 x 300 mm	191 x 335 x 470 mm	191 x 338 x 470 mm
Weight approx. models long range	4.3 kg	7.8 kg	8.4 kg

### STANDARDS

Marking	CE
Directives	Low voltage directive: 2014/35/EU, EMC directive: 2014/30/EU
Standards	Safety: EN 62040-1, EMC: EN 62040-2, Accordance: EN 62040-3

<sup>(1)</sup> Commercial autonomy. The autonomy can vary widely depending on the applied consumption. Contact us for customized autonomies...  
These specifications may change without notice



LBT models with customizable autonomy

