

## ZGR VERSATILE 3:1 1:1 it's our three-phase – single-phase flexible bet

# ZGR VERSATILE 10 - 20 KVA

## ONLINE THREE-PHASE UPS

PF 1.0

The ZGR VERSATILE series consists of a transformer-free SAI, in tower format and available in 10 – 15 – 20 kVA models with three-phase / single-phase input and single-phase output.

ZGR VERSATILE incorporates the most advanced technologies in DSP (digital signal processor), three-tier inverter circuit and maximum protection to critical loads, always optimizing energy savings.

This series anticipates the evolution of its single-phase installation to larger powers and the future need to switch to a three-phase network. Extends the service life of your single-phase installation by reducing costs.

It is an ideal equipment to protect industrial processes, data centers, transportation, emergencies and safety.



### Applications



### Characteristics

- Power factor of 1.0
- Convertible 3:1 / 1:1
- Parallelable up to 4 units
- Online double conversion with DSP control
- Low current distortion
- LBT models with customizable autonomy
- "Green Concept" design for energy saving
- Compatible with generators sets
- Configurable battery voltage
- Allows common battery configuration in parallel equipments
- Estimated battery life time on display
- Bay for Smart Cards: SNMP, dry contacts
- Communication software included
- Startup Cold Start
  - It allows the UPS to be put into operation even without power supply.
- ECO function
  - Minimizes UPS's own consumption and improves efficiency by up to 98 %
- Double conversion online

ZGR VERSATILE 10-20 KVA ONLINE THREE-PHASE UPS

TECHNICAL SPECIFICATIONS			
Model	ZGR VERSATILE 10	ZGR VERSATILE 15	ZGR VERSATILE 20
Power	10 kVA / 10 kW	15 kVA / 15 kW	20 kVA / 20 kW
Power factor	1.0		
Format	Tower		
INPUT ELECTRICAL CHARACTERISTICS			
Voltage range	120 - 276 Vac single phase / 205 - 478 Three-phase Vac		
Frequency	40 - 70 Hz (auto detecting)		
Power factor in input	0.99		
THDi (100 % load)	< 5 % non linear		
OUTPUT ELECTRICAL CHARACTERISTICS			
Nominal voltage	220 / 230 / 240 Vac single phase		
Frequency (battery mode)	50 / 60 Hz ± 0.2 Hz		
Waveform (battery mode)	Pure sinewave		
THD harmonic distortion (100 % load)	< 2 % linear / < 5 % non linear		
Transfer time	0 ms battery / 0 ms bypass		
Permissible peak current	3:1		
Overcharge (Online)	<110% - 60 min. / <125% - 10 min. / <150% - 1 min. / ≥ 150% 0.2 sec		
Overcharge (Battery)	105..110% - 10 min. / 110..130% - 1 min. / ≥ 150% 0.2 sec		
EFFICIENCY			
Inverter mode	Up to 93,5 %		
BATTERY			
Maximum charger current	14 A	16 A	18 A
Battery bus voltage	192 / 216 / 240 Vdc (selectable) <sup>(1)</sup>		
Autonomy	Customizable according to battery capacity		
MONITORING			
Informative	Intuitive display TFT 2,4" color		
Alarms	Acoustics depending on alarm (optional potential-free contacts)		
Software	Windows		
CONNECTIONS			
Terminal panel	Input / Output / Battery		
Protection switch	Input / Output / Maintenance bypass		
Separate bypass input (Dual input)	No		
Communication	USB / RS232		
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)		
ECO mode	Yes		
EPO Function (Emergency Power OFF)	Contacts in rear panel		
Parallelable	Yes (up to 4 units)		
Bypass operation limits	Configurable		
Frequency converter 50 - 60 Hz	Yes		
ENVIRONMENTAL AND MECHANICAL CHARACTERISTICS			
Operation temperature	0°C - +40°C		
Cooling	Forced with fans (PWM speed control)		
Noise level (at 1m)	< 60 dB		
Relative humidity	0 - 95 % without condensation		
Dimensions (WxHxL)	250 x 660 x 600 mm		
Weight approx.	33.5 kg	45 kg	48 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> The PF may vary depending on the number of battery elements  
These specifications may change without notice



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