

ZGR EFFICIENT R 6 - 10 KVA

ONLINE SINGLE-PHASE UPS



always ON

PF 1.0

ZGR EFFICIENT R

maximum efficiency supply for critical systems with. Rack/Tower Convertible.

The ZGR EFFICIENT R range goes one step further, looking to meet the needs of customers with greater demand for protected power in their 6 and 10 kVA versions, providing the best power solution for vital applications and critical devices that require maximum reliability and efficiency thanks to its 1,0 Power Factor and up to 93% efficiency.

It also supports parallel of up to 4 units for greater versatility and a growth according to the evolution of consumption of its installation.

Perfect for protecting industrial applications, servers, banks, IT equipment and networks.



APPLICATIONS



INDUSTRY



EMERGENCY



DOMESTIC USE



DATA CENTERS



RAILWAY SECTOR

CHARACTERISTICS

- » Power factor of 1,0
- » Parallelable up to 4 units
- » Common battery configurable
- » Communications card and dry contacts*
- » Pure sinewave output
- » Efficiency up to 93%
- » 3-level smart charger
- » LCD display
- » Cold Start and Auto Restart function
- » Frequency converter function

* Optional

- » Management and monitoring
 - Via software
 - USB/RS232 connection
- » EPO function (Emergency Power OFF)
 - By contact on the rear panel or button on the front.
- » ECO function
 - Minimizes UPS's own consumption for non-critical applications.
- » Auto diagnosis of battery and UPS operating state
- » Double conversion online

ZGR EFFICIENT R ONLINE SINGLE-PHASE UPS

TECHNICAL SPECIFICATIONS

Model	ZGR EFFICIENT R 6	ZGR EFFICIENT R 10
Power	6 kVA / 6 kW	10 kVA / 10 kW
Power factor	1,0	
Format	Rack	

INPUT ELECTRICAL CHARACTERISTICS

Voltage range	120 - 276 Vac (allows use with generators) single phase
Frequency	45-65 Hz (auto detecting)
Power factor in input	0,99
THDi (100 % load)	< 3 % linear, < 5 % non linear

OUTPUT ELECTRICAL CHARACTERISTICS

Nominal voltage	208 / 220 / 230 / 240 Vac single phase
Frequency (battery mode)	50 / 60 Hz \pm 0,01 Hz
Waveform (battery mode)	Pure sinewave
THD harmonic distortion (100 % load)	< 3 % linear / < 5 % non linear
Transfer time	0 ms battery / 0 ms bypass
Permissible peak current	3:1
Overcharge	105..110% - 10 min. / 110..130% - 1 min. / \geq 130% 1 sec.

EFFICIENCY

Inverter mode	93%
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BATTERY

Battery voltage	192 / 216 / 240 V (selectable)
Hot Swap	Yes (battery pack)
Charge time	6 - 8 h / 90% (from a full discharge)
Protection	Overload, deep discharge, short circuit
Autonomy	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	Terminal panel
Output	Terminal panel
Communication	USB, RS232
Intelligent port	Yes (SNMP card / relays optional)

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)
EPO Function (Emergency Power OFF)	Contacts in rear panel
Parallelable	Yes (up to 4 units)
Frequency converter 50-60Hz	Yes

ENVIRONMENTAL AND MECHANICAL CHARACTERISTICS

Protection switches	Yes	
Cooling	Forced with fans (PWM speed control)	
Operation temperature	0 - 40 °C	
Noise level (at 1 m)	< 55 dB	
Relative humidity	0 - 95% without condensation	
Dimensions (WxHxL)	440 x 88 x 675 mm	440 x 88 x 675 mm
Weight approx.	14 kg	18 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

* These specifications may change without notice.



IEC 62040 - 3



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