

# ZGR EFFICIENT RT 1 - 3 KVA

ONLINE SINGLE-PHASE UPS



## EFFICIENT RT compact and convertible Rack / Tower series.

EFFICIENT RT are high density double conversion Online UPS, adapted to supply power to a wide range of devices such as servers, storage systems, VoIP telephone devices and network, as well as industrial ones.

It is ideal to supply and protect Blade Server systems thanks to its high power factor. With only 2U EFFICIENT RT can perfectly be integrated in 19" rack cabinets.

ZGR has always been concerned with energy savings and has introduced in all UPS series the ECO function that minimizes self consumption during normal operation and improves efficiency.



### APPLICATIONS



INDUSTRY



EMERGENCY



DOMESTIC USE



DATA CENTERS



RAILWAY SECTOR

## CHARACTERISTICS

- » Power Factor of 0,9
- » Rack / tower format
- » SNMP communications cards and dry contacts\*
- » Long autonomy models
- » 1, 2 and 3 kVA models
- » Pure sinewave output
- » 3-level smart charger
- » LCD screen
- » Cold Start and Auto Restart function
- » Self battery and UPS status diagnosis
- » Frequency converter function 50Hz <-> 60Hz
- » Management and monitoring
  - Via software
  - USB / RS232 connection
- » ECO function
  - Minimizes the UPS self consumption
- » Power off function
  - Power shedding function guarantees autonomy to priority loads
- » Double conversion online (Rectifier / Inverter)
  - It completely isolates the customer loads from mains voltage and frequency variations and from noise

\* Optional

ZGR EFFICIENT RT ONLINE SINGLE-PHASE UPS

TECHNICAL SPECIFICATIONS			
Model	ZGR EFFICIENT RT 1	ZGR EFFICIENT RT 2	ZGR EFFICIENT RT 3
Power	1000VA / 900W	2000 VA / 1800W	3000 VA / 2700W
Power factor	0,9		
INPUT ELECTRICAL CHARACTERISTICS			
Voltage range	162 - 290Vac (allows use with generators)		
Frequency	45 - 65 Hz (auto detect)		
Input power factor	0,99		
OUTPUT ELECTRICAL CHARACTERISTICS			
Nominal voltage	208 / 220 / 230 / 240Vac		
Frequency (battery mode)	50 / 60 Hz $\pm$ 0,02 Hz		
Waveform (battery mode)	Pure sinewave		
Harmonic distortion THD (100% load)	< 3 % lineal / < 5 % non lineal		
Transfer time	0ms battery / < 4 ms bypass		
Permissible peak current	3:1		
EFFICIENCY			
Inverter mode	Up to 92 %		
BATTERY			
Type / Capacity for standard models	24 V / 9 Ah (36 V -LBT)	48 V / 9 Ah (72 V -LBT)	72 V / 9 Ah (96 V -LBT)
Hot Swap	Yes <sup>(1)</sup>		
Recharge time	5 h / 90% (from full discharge condition)		
Protection	Overload and deep discharge		
Autonomy	10 mins to several hours (expandable with additional battery packs)		
MONITORIZATION			
Informative	LED + LCD display		
Alarms	Acoustic depending on alarm		
Software	Windows / Linux / MAC		
CONNECTIONS			
Input	1x IEC / 1x Anderson (Long Backup models LBT)		
Output	Up to 4+4 IEC (4 IEC power sheeding enabled)		
Protection	Modem / LAN RJ45		
Communication	USB y RS232 (monitorization software)		
Intelligent port	Yes (SNMP / dry contact cards optional)		
FUNCTIONS			
ON/OFF with battery (Cold Start)	Yes (allows to operate the UPS without mains power)		
Auto Restart	Yes (restart the UPS functions after a failure or deep battery discharge)		
Parallelable	No		
Frequency converter 50 - 60 Hz	Yes		
Programmable outputs	Yes		
MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS			
Rack mounting guides	Optional		
Cooling	Forced fan cooling		
Operation temperature	0 - 40 °C		
Noise level (at 1m)	< 50 dB		
Relative humidity	0 - 95 % without condensation		
Dimensions for standard models (WxHxD)	440 x 86,5 x 325 mm	440 x 86,5 x 460 mm	440 x 86,5 x 600 mm
Approx. weighth for standard models	11,3 kg	19,1 kg	26,4 kg
Long backup model dimensions (WxHxD)	440 x 86,5 x 325 mm	440 x 86,5 x 435 mm	440 x 86,5 x 435 mm
Long backup model approx. weight	5,6 kg	8,3 kg	8,6 kg

<sup>(1)</sup> Battery easily replaceable by the user.

\* Vertical or horizontal mounting.

\* These specifications may change without notice.

IEC 62040 - 3



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