

EFFICIENT RT in compact and convertible format Rack/Tower

ZGR EFFICIENT RT 1 - 3 KVA

ONLINE SINGLE-PHASE UPS

PF 0.9

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

It is ideal to supply and protect Blade Server systems thanks to its high power factor. The height of only 2U makes the EFFICIENT RT range perfectly integrated into 19" rack cabinets.

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



Applications



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 conversion function - 50 Hz <-> 60 Hz
- Management and monitoring
 - Via software
 - USB/RS232 connection
- ECO function
 - Minimizes the UPS self consumption.
- Outputs Off function
 - Power shedding function guarantees autonomy to priority
- Double conversion online (Rectifier/Inverter)
 - It completely insulates the consumption of voltage, frequency and noise variations from the power grid

ZGR EFFICIENT RT 1 - 3 KVA ONLINE SINGLE-PHASE UPS

TECHNICAL SPECIFICATIONS			
Model	ZGR EFFICIENT RT 1	ZGR EFFICIENT RT 2	ZGR EFFICIENT RT 3
Power	1000 VA / 900 W	2000 VA / 1800 W	3000 VA / 2700 W
Power factor	0,9		
INPUT ELECTRICAL CHARACTERISTICS			
Voltage range	162 - 290 Vac (allows use with generators) single phase		
Frequency	45 - 65Hz (auto detecting)		
Power factor in input	> 0,99		
OUTPUT ELECTRICAL CHARACTERISTICS			
Nominal voltage	208 / 220 / 230 / 240 Vac single phase		
Frequency (battery mode)	50 / 60Hz ± 0.02 Hz		
Waveform (battery mode)	Pure sinewave		
THD harmonic distortion (100% load)	< 3 % linear / < 5 % non linear		
Transfer time	0ms battery / < 4ms 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 ⁽¹⁾		
Charge time	5 h / 90 % (from a full discharge)		
Protection	Overload and deep discharge		
Autonomy	10 mins up to several hours (extendable with additional battery modules)		
MONITORING			
Informative	LED + LCD display		
Alarms	Acoustics depending on alarm		
Software	Windows / Linux / MAC		
CONNECTIONS			
Input	1x IEC / 1x Anderson (long models LBT autonomy)		
Output	Up to 4+4 IEC (4 IEC with programmable output)		
Protection	Modem / LAN RJ45		
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 50-60Hz	Yes		
Programmable outputs	Yes		
ENVIRONMENTAL AND MECHANICAL CHARACTERISTICS			
Rack mounting guides	Optional		
Cooling	Forced with fans (PWM speed control)		
Operation temperature	0°C ~ +40°C		
Noise level (at 1 m)	< 50 dB		
Relative humidity	0 - 95 % without condensation		
Dimensions for long-range models (WxHxD)	440 x 88 x 330 mm	440 x 88 x 460 mm	440 x 88 x 605 mm
Weight approx. for standard models	12 kg	19 kg	29 kg
Dimensions for long-range models (WxHxD)	440 x 88 x 460 mm	440 x 88 x 605 mm	440 x 88 x 605 mm
Weight approx. for models long range	8,5 kg	9 kg	13 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		



⁽¹⁾ Battery easily replaceable by the user
Vertical mounting available
These specifications may change without notice

IEC 62040 - 3



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