

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

EFFICIENT RT in compact and convertible format Rack/Tower

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 sheeding function guarantees autonomy to priority
- Double conversion online (Rectifier/Inverter) - It completely insolates the consumption of voltage, frequency and noise variations from the power grid

TECHNICAL SPECIFICATIONS	
Model	ZGR EFF
Power	1000 VA /
Power factor	0.9
INPUT ELECTRICAL CHARACTERISTICS	
Voltage range	162 - 290
Frequency	45 - 65 Hz
Power factor in input	> 0.99
OUTPUT ELECTRICAL CHARACTERISTICS	
Nominal voltage	208 / 220
Frequency (battery mode)	50 / 60 Hz
Waveform (battery mode)	Pure sine
THD harmonic distortion (100% load)	< 3 % line
Transfer time	0 ms batte
Permissible peak current	3:1
EFFICIENCY	
Inverter mode	Up to 92
BATTERY	
Type / Capacity for standard models	24 V / 9 A
Hot Swap	Yes ⁽¹⁾
Charge time	5 h / 90 %
Protection	Overload
Autonomy (1)	10 mins u
MONITORING	
Informative	LED + LC
Alarms	Acoustics
Software	Windows
CONNECTIONS	
Input	1x IEC / 1
Output	Up to 4+4
Protection	Modem /
Communication	USB and
Intelligent port	Yes (SNM
FUNCTIONS	
On/OFF with battery (Cold Start)	Yes (allow
Auto Restart	Yes (resta
Parallelable	No
Frequency converter 50-60Hz	Yes
Programmable outputs	Yes
ENVIRONMENTAL AND MECHANICAL CHARACTERIST	ICS
Rack mounting guides	Optional
Cooling	Forced w
Operation temperature	0°C ~ +40
Noise level (at 1 m) Relative humidity	< 50 dB 0 - 95 % \
Dimensions for long-range models (WxHxD)	440 x 88
Weight approx. for standard models	12 kg
Dimensions for long-range models (WxHxD)	440 x 88
Weight approx. for models long range	8.5 kg
STANDARDS	
Marking	CE
Directives	Low volta
Standards	Safety: El



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FFICIENT RT 1	ZGR EFFICIENT RT 2	ZGR EFFICIENT RT 3
A / 900 W	2000 VA / 1800 W	3000 VA / 2700 W
	vith gaparatara) aingle p	haaa
	vith generators) single p	lidse
6 Hz (auto detecting)		
20 / 230 / 240 Vac si	ngle phase	
Hz ± 0.02 Hz		
inewave		
linear / $< 5\%$ non line	ear	
attery / < 4 ms bypas	S	
92 %		
9 Ah (36 V - LBT)	48 V / 9 Ah (72 V - 1 I	BT) 72 V / 9 Ah (96 V - LB
	10 17 07 01 (72 V * LL	
0 % (from a full disch	arae)	
ad and deep dischar		
	e (extendable with addition	onal battery modules)
LCD display		
tics depending on ala	arm	
ws / Linux / MAC		
/ 1x Anderson (lona	models LBT autonomy)
	programmable output)	
n / LAN RJ45	0 1 /	
nd RS232 (software i	monitoring)	
NMP optional / dry c	ontacts)	
lows UPS to run with	out mains nower)	
	after a failure or deep l	battery discharge)
al		
l with fans (PWM spe	eed control)	
+40°C		
3		
% without condensat	tion	
38 x 330 mm	440 x 88 x 460 mm	440 x 88 x 605 mm
	19 kg	29 kg
38 x 460 mm	440 x 88 x 605 mm	440 x 88 x 605 mm
	8.3 kg	8.6 kg
oltage directive: 2014	/35/EU, EMC directive: 2	2014/30/EU
EN 62040-1, EMC: E	EN 62040-2, Accordance	e: EN 62040-3
ommercial autonon applied co	ny. The autonomy cal	n vary widely depending on us for customized autonomi
applied ed		ations may change without no
Battery easily replace	eable by the user	
Vertical m	ounting available	IEC 62040 - 3
		VFI
		ONLINE
ONLINE SINGLE	E-PHASE UPS	

ZGR UPS 15