

Ultima RT Series

Online Rack Mount UPS, 1kVA-3kVA

Highlights

- True double-conversion pure sine wave output
- Wide input voltage range (60-145Vac LV; 120-300Vac HV)
- 50/60Hz Frequency Converter Mode
- ECO Mode
- Input power factor correction
- 6A charging current ('L' model)
- Intelligent slot for optional network card
- Optional external battery bank

Protection From



1
Brief
Blackouts



2
Overvoltages



3
Undervoltage



4
Power
Surge



5
Power Sag



6
Line Noise



7
Frequency
Variation



8
Switching
Transient



9
Harmonic
Distortion



Typical Applications

- Server rooms
- Office equipment
- Lab equipment
- Networking devices
- Surveillance systems
- VoIP / PBX systems
- Security systems
- Telecom equipment

OVERVIEW

Model	ULT-W1KRT	ULT-W2KRT	ULT-W3KRT	ULT-W1KLRT	ULT-W2KLRT	ULT-W3KLRT
Capacity	1000VA / 900W	2000VA / 1800W	3000VA / 2700W	1000VA / 900W	2000VA / 1800W	3000VA / 2700W

INPUT

Nominal Voltage	LV: 110 / 115 / 120 / 127Vac or HV: 208 / 220 / 230 / 240Vac	HV: 208 / 220 / 230 / 240 / 240Vac
Voltage Range	LV: 90 - 145Vac at full load; 60 - 145Vac at half load HV: 180 - 300Vac at full load; 120 - 300Vac at half load	HV: 180 - 300Vac at full load; 120 - 300Vac at half load
Frequency Tolerance	40 - 70Hz	
Power Factor	>0.99 at full load	
Harmonic Distortion (THDi)	<5% at full load	

OUTPUT

Nominal Voltage	LV: 110 / 115 / 120 / 127Vac or HV: 208 / 220 / 230 / 240Vac	HV: 208 / 220 / 230 / 240Vac
Voltage Range (On Battery)	±1%	
Frequency Regulation (On Battery)	50/60Hz ± 0.5%	
Current Crest Factor	3:1 (max.)	
Voltage Distortion	3% at linear load; 6% at non-linear load	

EFFICIENCY

AC-AC	≥88%	≥89%	≥90%	≥88%	≥89%	≥90%
Battery Mode	≥83%	≥87%	≥88%	≥83%	≥87%	≥88%
ECO Mode	≥96% at full charged battery					

TRANSFER TIME

Line Mode <--> Battery Mode	Zero					
ECO Mode <--> Battery Mode	<10ms					
Inverter <--> Bypass	4ms (typical)					

BATTERY

Quantity & Size	2 x 12V / 9Ah	4 x 12V / 9Ah	6 x 12V / 9Ah	Varies by external battery capacity	Varies by external battery capacity	Varies by external battery capacity
Float Charging Voltage	27.4V ± 1%	54.8V ± 1%	82.2V ± 1%	27.4V or 41.1V	54.8V or 82.2V	82.2V or 109.6V
Rated Battery Voltage	24V	48V	72V	24V or 36V	48V or 72V	72V or 96V
Charging Current	1A	1A	1A	6A	6A	6A
Recharge Time	4 hours recover to 90% capacity for standard models; varies for extended runtime models ('L' models)					

PHYSICAL

Dimensions (DWH)(mm/in)	310 x 438 x 88 / 12.2 x 17.2 x 3.5	410 x 438 x 88 / 16.1 x 17.2 x 3.5	630 x 438 x 88 / 24.8 x 17.2 x 3.5	310 x 438 x 88 / 12.2 x 17.2 x 3.5	410 x 438 x 88 / 16.1 x 17.2 x 3.5	460 x 438 x 88 / 18.1 x 17.2 x 3.5
Weight (kg/lb)	12.0 / 26.5	19.0 / 41.9	29.3 / 64.6	9.0 / 19.8	12.0 / 26.5	14.2 / 31.3

Ultima RT Series

Online Rack Mount UPS, 6kVA-10kVA



6kVA



10kVA

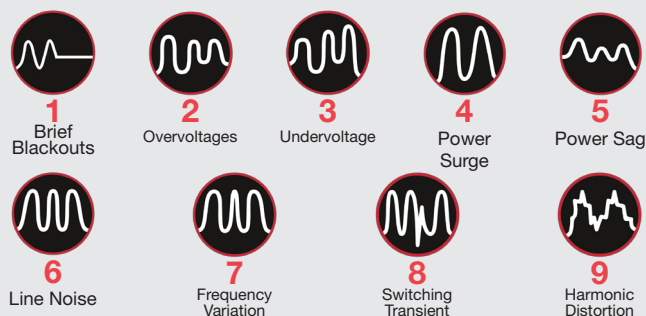
Typical Applications

- Server rooms
- Surveillance systems
- Telecommunication rack
- Networking devices
- Commercial equipment
- Financial institutions
- Storage systems
- Security systems

Highlights

- True double-conversion pure sine wave output
- Wide input voltage range (110-300Vac)
- Frequency Converter Mode
- Emergency Power Off (EPO) function
- Input power factor correction
- 6A charging current ('L' model)
- Intelligent slot for optional network card
- Optional external battery bank and battery connector
- Optional external MBS

Protection From



OVERVIEW

Model	ULT-W6KRT	ULT-W6KLRT	ULT-W10KRT	ULT-W10KLRT
Capacity	6000VA / 5400W		10000VA / 9000W	

INPUT

Nominal Voltage	208 / 220 / 230 / 240Vac
Voltage Range	110 - 300Vac $\pm$ 3% at half load; 176 - 300Vac $\pm$ 3% at full load
Frequency Tolerance	50 / 60Hz $\pm$ 4Hz
Power Factor	$\geq$ 0.99 at full load
Harmonic Distortion (THDi)	< 5% at full load

OUTPUT

Nominal Voltage	208 / 220 / 230 / 240Vac
Current Crest Factor	3:1 (max.)
Voltage Distortion	3% at linear load; 5% at non-linear load

EFFICIENCY

AC-AC / Battery Mode / ECO Mode	92% / 90% / 95%	93% / 91% / 95%
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TRANSFER TIME

Line Mode <--> Battery Mode	0ms
Inverter <--> Bypass	0ms

BATTERY

Quantity & Size	16 x 12V / 7Ah	Varies by external battery capacity	16 x 12V / 9Ah	Varies by external battery capacity
Float Charging Voltage	218.4V $\pm$ 1%	273V $\pm$ 1% (based on 20 pcs battery)	218.4V $\pm$ 1%	273V $\pm$ 1% (based on 20 pcs battery)
Rated Battery Voltage	192V	192V - 240V	192V	192V - 240V
Charging Current	1A	6A (1A - 6A adjustable)	1A	6A (1A - 6A adjustable)
Recharge Time	8 hours to 90% capacity	Varies by external battery capacity	8 hours to 90% capacity	Varies by external battery capacity

PHYSICAL

Dimensions (DWH)(mm/in)	UPS Unit: 500 x 438 x 88 / 19.7 x 17.2 x 3.5 (2U) Battery Bank: 668 x 438 x 88 / 26.3 x 17.2 x 3.5 (2U) (optional 3U BB: 580 x 438 x 133 / 22.8 x 17.2 x 5.2)	UPS Unit: 500 x 438 x 88 / 19.7 x 17.2 x 3.5 (2U)	UPS Unit: 580 x 438 x 133 / 22.8 x 17.2 x 5.2 (3U) Battery Bank: 668 x 438 x 88 / 26.3 x 17.2 x 3.5 (2U) (optional 3U BB: 580 x 438 x 133 / 22.8 x 17.2 x 5.2)	UPS Unit: 580 x 438 x 133 / 22.8 x 17.2 x 5.2 (3U)
Weight (kg/lb)	UPS Unit: 15 / 33.1 2U Battery Bank: 48 / 105.8 (optional 3U BB: 57 / 125.7)	UPS Unit: 15 / 33.1	UPS Unit: 18 / 39.7 2U Battery Bank: 51 / 112.5 (optional 3U BB: 61 / 134.5)	UPS Unit: 18 / 39.7