

iRT Series

High Frequency Online UPS

1-10KVA(1 Ph in/1 Ph out)



Stable and Reliable Design

- Total power factor up to 90%
- Output power factor up to 0.8
- Operating Range 130 to 275VAC
- Active power factor correction (PFC)
- Optional Emergency Power Off (EPO)
- LCD screen rotatable for Rack or Tower use

Key Features

- User friendly
- Low distortion
- Pure sine wave output
- Rack-Tower Convertible
- Double conversion online
- Compact Design, Lower Noise

Comprehensive Protection

- Output overload
- Static bypass function
- Short circuit protection
- Under-voltage protection
- Self diagnostics upon boot-up
- Cold start (battery only) function
- Inverter over-temperature protection
- Battery over/under voltage protection

Intelligent Management

- Optional USB port
- Optional Relay card
- Optional SNMP interface
- Supports timing boot up/shut down
- Supports timing UPS self-test function
- Intelligent Power Management Software
- Standard RS232 interface for local monitoring
- Support real time graphical user interface function
- Winpower supports Microsoft Windows 95/Me/NT/2000/XP and Unix operating system. Suitable for TCP/IP network

Personal
Computers



Network



Industry



Medical



Telecom



Local area
Networks



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iRT Series Technical Specifications

Model	iRT series 1-10KVA										
	1CKRT	1CKRT-XL	2CKRT	2CKRT-XL	3CKRT	3CKRT-XL	6CKRT	6CKRT-XL	10CKRT	10CKRT-XL	
Capacity	1KVA/800W		2KVA/1600W		3KVA/2400W		6KVA/4800W		10KVA/8000W		
Nominal Voltage	220/230/240VAC Single phase 2 wire+G										
Nominal Frequency	50/60HZ										
Input											
Voltage Range	115~300VAC						120~275VAC				
Frequency Range	50HZ: (46~54HZ); 60HZ:(56HZ~64HZ)										
Power Factor	> 0.98						0.99				
Output											
Voltage Precision	220/230/240X (1±2%) VAC										
Frequency Precision	50/60Hz±0.05Hz										
Power Factor	0.8						0.8/0.9(Optional)				
Harmonic Distortion	Linear load<3% Non-linear<6%										
Overload Capacity	load > 110% for 47s; load > 150% for 25s; load > 200% for 300ms;						105% < load ≤125% for 60s; 125% < load ≤150% for 30s; load >150% for 0.5s.				
Current Crest Ratio	3:1										
Transfer time	0 ms(AC mode↔DC mode);(AC mode↔Bypass<4ms)										
Battery											
DC Voltage	36VDC		72VDC		96VDC		192 or 240VDC				
Recharge Time	5 hours to 90%(it means standard model which battery inside UPS)										
Charging Current	1A	4A/8A(Optional)	1A	4A/8A(Optional)	1A	4A/8A(Optional)	2A	4A	2A	4A	
Panel Display											
LCD	UPS status, input/output voltage and frequency, battery voltage, capacity, load temperature, history records, adjust voltage, ECO mode										
Communication											
Communication port	RS232, SNMP Card(Optional),USB port(Optional)										
Working Environment											
Temperature	0℃~40℃										
Relative Humidity	0~95% (Non-condensing)										
Storage Temperature	-25 C ~ 55 C										
Elevation	1500 m										
Noise Level	<45dB			<50dB				<50dB			

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iRT series 1-10KVA				
Model	Capacity	Dimension (WxDxH) mm	N.W(kgs)	G.W(kgs)
iRT series (standard model)	1KVA/800W	440X450X88(2U)	16.5	18.5
	2KVA/1600W	438X600X132(3U)	22	24
	3KVA/2400W	438X600X132(3U)	26	28
	6KVA/4800W	438X600X132(3U)	18.5	21.5
	10KVA/8000W	438X600X132(3U)	22	25
iRT series (standard model without battery)	2KVA/1600W	440X450X88(2U)	10.5	13.5
	3KVA/2400W	440X450X88(2U)	11.5	14.5
iRT series (long back up time model)	1KVA/800W	440X450X88(2U)	9.5	11.5
	2KVA/1600W	440X450X88(2U)	11.5	14.5
	3KVA/2400W	440X450X88(2U)	12.5	15.5
	6KVA/4800W	438X600X132(3U)	20.5	23.5
	10KVA/8000W	438X600X132(3U)	24	27
Battery Cabinet				
BRT9032	36VDC 9AH 3x2	440X450X88(2U)	20	22
BRT9061	72VDC 9AH 6x1	440X450X88(2U)	20	22
BRT9081	96VDC 9AH 8x1	440X450X88(2U)	24	26
BRT9161	192VDC 9AH 16x1	438X600X132(3U)	45	47
BRT9201	240VDC 9AH 20x1	438X600X132(3U)	54	56
BRT7032	36VDC 7AH 3x2	440X450X88(2U)	18	20
BRT7061	72VDC 7AH 6x1	440X450X88(2U)	18	20
BRT7081	96VDC 7AH 8x1	440X450X88(2U)	22	24
BRT7161	192VDC 7AH 16x1	438X600X132(3U)	42	44
BRT7021	240VDC 7AH 20x1	438X600X132(3U)	50	52