

# APS-RT RACK / TOWER

## UNIVERSAL ONLINE HF UPS

RC series: 1 KVA – 20 KVA

Applicable to all kinds of network equipment and precision instrument systems



### ABOUT PRODUCT

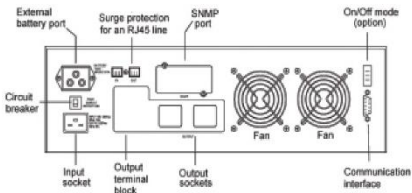
The APS-RT Rack & Tower UPS System is a line of advanced True On Line Double Conversion technology. The ingenious mechanical design allows for both 19" Rack or Tower configuration all in one solution. This allows the customer the convenience of flexibility when installing the UPS. A user-friendly revolving LCD display allows for the customer to interrogate the UPS, load and battery status. This systems is offered from 1kVA to 20kVA with standard 5-10 minutes back up or alternatively for long duration back-up.

### PRODUCT PERFORMANCE

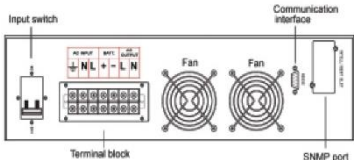
The APS-RT is an advanced, true online Uninterruptible Power Supply (UPS) providing reliable, regulated and stable voltage to any type of load, from computers and telecommunication systems to automated industrial control systems. The APS-RT UPS is available in various models of up to 20 kVA. Voltage surges, spikes and sags are inherent in commercial utility power. Over time, these irregularities shorten the life of the equipment and components. The APS-RT UPS continually eliminates power irregularities, thus helping extend the life of your equipment, even through normal use when the input power is constant and continuous. The APS-RT is designed so that it can be deployed horizontally or vertically. When deployed horizontally, it fits in a standard 19" rack, and is 2U in height. When deployed vertically, the control screen can be physically rotated 90 degrees for easy use in either position.

### MAIN FEATURES

- True on line sine design, pure sine wave output without pollution
- Intelligent DCP/CPU design with 0.99 PFC
- Zero transfer time ensuring the reliability of the load operation
- Local and remote control capability with RS232 or USB port compatible with SNMP
- Self diagnosis and protection function
- Peak value of current and short circuit protection design
- N+1 Parallel capability
  - Overall efficiency > 93%
  - Input Current Harmonic < 5%



Rear panel of APS- RT 1 – 3 kVA 19" models



Rear panel of APS- RT 6 and 10 kVA 19" models



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### TECHNICAL SPECIFICATIONS

Model	1K	1KS	2K	2KS	3K	3KS	6K	6KS	10K	10KS	3 - 10KS	3 - 15KS	3 - 20KS		
Capacity	1KVA/0.8KW		2KVA/1.6KW		3KVA/2.4KW		6KVA/4.8KW		10KVA/8KW			15KVA/12KW	20KVA/16KW		
Topology	True on-line, double-conversion, VFI														
Operation	Continuous														
<b>Input</b>															
Input	Voltage	110-300 VAC						120 - 275 VAC				304 - 478 VAC			
	Frequency	50/60 Hz ± 10% ( Battery Mode )													
<b>Output</b>															
Output	Voltage	220/230 ± 1% VAC													
	Frequency	50/60 Hz ± 0.5Hz ( Battery Mode )													
Output Waveform	Pure Sine Wave														
Transfer Time	Zero														
DC Voltage (VDC)	36	36	72	72	96	96							192		
Waveform	Sinusoidal														
THD (%)	< 2 for linear load														
Power factor 0.8	0.8														
<b>Batteries</b>															
Battery Type	Sealed, lead acid, rechargeable, maintenance-free														
<b>General</b>															
Overload Capacity	105% - 125%	10s						Output will switch to bypass after 1 minute							
	125% - 135%	200 ms						Output will switch to bypass after 30 seconds							
	>135%	200ms						Output will switch to bypass after 100 ms							
Crest Ratio	3:1 (max)														
Distortion (Full Load)	Linear Load	< 3%													
	Non-Linear Load	< 5%													
Communication interface	Rs 232 interface + Intelligent Slot														
Working Temperature	0° ~ 40°C														
Relative Humidity	20 ~ 90% (non-condensing)														
<b>LCD Display</b>															
Input	Voltage, current														
Output	Voltage, frequency, current														
Batteries	Voltage														
Log (events memory)	Last 200 events														
<b>Standards</b>															
Safety	IEC 62040-1														
EMC	IEC 62040-2														
Design	IEC 62040-3														
Low Magnetic Field Radiation	EMF as per ICNIRP														
Dimension	(W x D x H) mm	430 x 480 x 88 (2U)						430 x 680 x 88 (2U)						430 x 680 x 178 (4U)	
	Standard Type	2U		2U + 2U		2U + 2U	2U + 2U		2U + 2U		2U	2U	4U	4U	
	Long Backup		2U		2U		2U		2U		2U		4U	4U	
Net Weight (kg)	12 / 14	8.5	27 / 30	13	28 / 31	13.5	89	18	90	19	26	40	40		

Specifications can be adjusted and modified.

Compliant with International EMC standards

Additional Remarks:

Internal batteries are based on the standard models listed below

- 1K 12V7Ah×3 2K 12V7Ah×8
- 3K 12V7Ah×8 6K/10K 12V9Ah×16

\*\* Model 'S' indicates long backup model



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