

## RD9900 Series UPS

### 1 kVA ~ 3 kVA



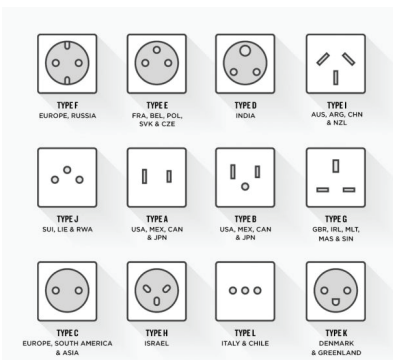
### Features

- High frequency on-line double conversion technology
- DSP (Digital signal processors) control technology
- Active power factor correction (APFC), input power factor up to 0.99
- Output power factor 0.9
- Wide input voltage range (110V ~ 300Vac) and frequency range (40 ~ 70Hz)
- Auto sensing frequency
- 50/60Hz frequency conversion
- Cold start
- Rear ventilation design and variable speed fan
- Effective software and hardware protection
- Quick and stable charging, 90% capacity restored in 3 h (standard model UPS)

- Linear derating in low voltage input reducing battery discharging times
- Settable delayed start when power is restored
- Advanced battery management (ABM)
- Multiple functions settable via LCD: output voltage, EOD, auto-start, bypass mode, ECO mode and frequency conversion mode
- Multi-platform communications: RS232 (standard), USB / RS485 / SNMP / dry contacts (optional)

### Available Options

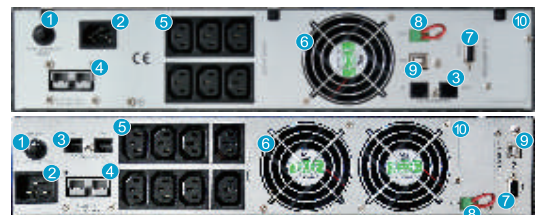
- Optional USB, RS485 card, AS400 dry contacts, SNMP card, SMS alarms, EPO function, MBS (External maintenance bypass switch)



Optional sockets

### Rear Panel

1. Overcurrent Protection
2. AC Input
3. Modem/Tel/Fax
4. DC Input
5. Outlet
6. FAN
7. RS232
8. EPO (optional)
9. USB (optional)
10. Intelligent Slot



## Specifications

MODEL	RD9901MSXT	RD9901MHXT	RD9902MSXT	RD9902MHXT	RD9903MSXT	RD9903MHXT			
Capacity	1 KVA / 900 W		2 KVA / 1800 W		3 KVA / 2700 W				
<b>INPUT</b>									
Rated voltage	208 V / 220 V / 230 V / 240 Vac								
Voltage range	110 ~ 176 Vac ( linear derating between 50% and 100% load ); 176 ~ 280 Vac (no derating); 280 ~ 300 Vac (derating 50%)								
Frequency	40 ~ 70 Hz (auto-sense)								
Power factor	≥ 0.99								
Bypass voltage range	-25% ~ +15% (settable)								
<b>OUTPUT</b>									
Voltage	208 V / 220 V / 230 V / 240 Vac (settable via LCD)								
Voltage regulation	± 1%								
Frequency	45 ~ 55 Hz or 55 ~ 65 Hz (synchronized range); 50 / 60 Hz ± 0.1 Hz (battery mode)								
Waveform	Sinusoidal								
Crest factor	3:1								
Harmonic distortion	≤ 2% (linear load); ≤ 5% (non-linear load)								
Transfer time	Mains mode to battery mode: 0 ms Inverter mode to bypass mode: 4 ms (typical)								
Overload capability	105% ~ 125%: transfer to bypass in 1 min; 125% ~ 150%: transfer to bypass in 30 s; > 150%: transfer to bypass in 300 ms								
<b>EFFICIENCY</b>									
Mains mode	≥ 90%		≥ 91%		≥ 92%				
Battery mode	≥ 85%		≥ 86%		≥ 87%				
ECO mode	≥ 95%		≥ 96%		≥ 97%				
<b>BATTERIES</b>									
DC voltage	24 V	36 V	36 V	48 V	72 V	72 V	72 V	96 V	96 V
Inbuilt battery	2 × 9 Ah	3 × 7 Ah	/	4 × 9 Ah	6 × 7 Ah	/	6 × 9 Ah	8 × 7 Ah	/
Charging current (max.)	1 A		6 A	1 A		6 A	1 A		6 A
Recharge time	8 h								
<b>ALARMS</b>									
Utility failure	4 s per beep								
Low battery	1 s per beep								
Overload	1 s twice beep								
UPS fault	Long beep								
<b>COMMUNICATIONS</b>									
RS232 (standard) / USB (optional)	Supports Windows® 98 / 2000 / 2003 / XP / Vista / 2008 / Windows® 7 / 8 / 10								
SNMP (optional)	Power management from SNMP manager and web browser								
<b>OTHERS</b>									
Operating temperature	0 ~ 40°C								
Relative Humidity	0 ~ 90% (non-condensing)								
Noise level	≤ 50 dB (1m)								
Dimensions (W × D × H) (mm)	440 × 468 × 88		440 × 658 × 88		440 × 468 × 88	440 × 658 × 88	440 × 468 × 88 (UPS) 440 × 440 × 86 (BAT)	440 × 468 × 88	
Packaged dimensions (W × D × H) (mm)	545 × 592 × 198		545 × 782 × 198		545 × 592 × 198	545 × 782 × 198	545 × 592 × 198 (UPS) 590 × 580 × 200 (BAT)	545 × 592 × 198	
Net weight (kg)	12.26	13.78	7.58	22.73	25.86	9.66	29.26	9.45 (UPS) 27.2 (BAT)	10.04
Gross weight (kg)	15.78	17.3	11.1	26.63	29.76	13.18	33.16	12.97 (UPS) 30.2 (BAT)	13.56

● Derate capacity to 70% in CUCF mode and to 90% when the output voltage is adjusted to 208Vac.  
● S means standard model, H means long time model.

● All specifications subject to change without notice.  
● Custom-made specifications are acceptable.