



RT ON-LINE PRO
RV-1000RT~RV-3000RT
RF 0.9



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 (110 V ~ 300 Vac) and frequency range (40 ~ 70 Hz)
- Auto sensing frequency
- 50 / 60 Hz 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)

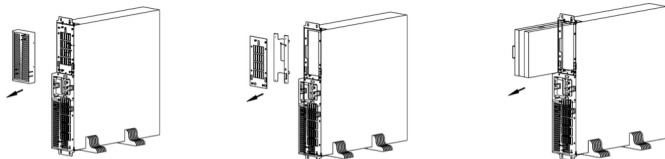
- Linear derating in low voltage input reducing battery discharging times
- Settable delayed start when power is restored
- Hot-swappable battery
- Advanced battery management (ABM)
- Multiple functions settable via LCD: output voltage, EOD, auto-start, bypass mode, ECO mode and frequency conversion 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)

Rear Panel

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



Easy for maintenance, hot-swappable battery

Specifications

MODEL	RV-1000RT			RV-2000RT			RV-3000RT	
Capacity	1 kVA / 900 W			2 kVA / 1800 W			3 kVA / 2700 W	
INPUT								
Rated voltage	208 / 220 / 230 / 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-sensing)							
Power factor	≥ 0.99							
Bypass voltage range	-25% ~ +15% (settable)							
OUTPUT								
Voltage	208 / 220 / 230 / 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							
Total harmonic distortion (THDv)	≤ 2% (linear load); ≤ 5% (non-linear load)							
Transfer time	Mains mode to battery: 0 ms; Inverter mode to bypass mode: 4 ms (typical)							
Overload	105% ~ 125% for 1 min, 125% ~ 150% for 30 s, > 150% for 300 ms							
EFFICIENCY								
Mains mode	≥ 90%			≥ 91%			≥ 92%	
ECO mode	≥ 95%			≥ 96%			≥ 97%	
BATTERIES								
DC voltage	24 V	36 V	36 V	48V	72 V	72 V	72 V	96 V
Inbuilt battery	2×9 Ah	3×7 Ah	/	4×9 Ah	6×7 Ah	/	6×9 Ah	/
Charging current (max.)	2 A		6 A	2 A		6 A	2 A	
Recharger time	Standard model: 90% capacity restored in 3 hours; Long time model: depend on the capacity of battery							
ALARMS								
Utility failure	4 s per beep							
Low battery	1 s per beep							
Overload	1 s twice beep							
UPS fault	Long beep							
OTHERS								
Communications	RS232 (standard), USB / RS485 / dry contacts / SNMP (optional)							
EMI	IEC/EN62040-2							
EMS	IEC61000-4-2 (ESD) IEC61000-4-3 (RS) IEC61000-4-4 (EFT) IEC61000-4-5 (surge) IEC61000-4-6/4-8/4-11							
Operating temperature	0°C ~ 40°C							
Relative humidity	0~90% (non-condensing)							
IP rating	IP 27							
Noise level	≤ 50 dB (1 m)							
Dimensions (W × D × H) (mm)	440 × 368 × 88	440 × 468 × 88		440 × 528 × 88	440 × 650 × 88	440 × 468 × 88	440 × 650 × 88	440 × 468 × 88
Packaged dimensions (W × D × H) (mm)	545 × 492 × 198	545 × 592 × 198		545 × 652 × 198	545 × 852 × 198	545 × 592 × 198	545 × 852 × 198	545 × 592 × 198
Net weight(kg)	11.1	13.8	7.6	21.4	27.2	9.7	30.6	10.1
Gross weight(kg)	14.4	17.3	11.1	25.0	31.3	13.2	34.7	13.6