

VIGOR PLUS RT

1 kVA ~ 3 kVA

PF 0.9



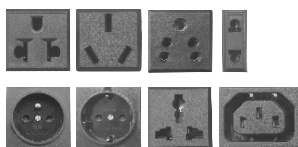
Features

- 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
- 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

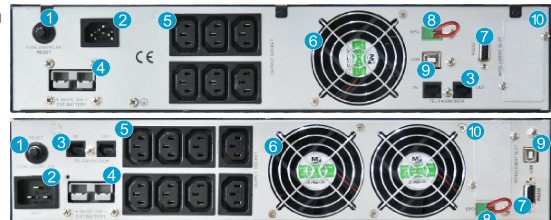
- Optional USB, RS485 card, AS400 dry contacts, SNMP card, SMS alarms, EPO function, MBS (External maintenance bypass switch)

Rear Panel



Optional sockets

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	VIGOR+ 1S			VIGOR+ 1H	VIGOR+ 2S		VIGOR+ 2H	VIGOR+ 3S		VIGOR+ 3H
Capacity	1 kVA / 900 W			2 kVA / 1800 W			3 kVA / 2700 W			
INPUT										
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)									
OUTPUT										
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% for 1 min, 125% ~ 150% for 30 s, > 150% for 300 ms									
EFFICIENCY										
Mains mode	≥ 90%			≥ 91%			≥ 92%			
Battery mode	≥ 85%			≥ 86%			≥ 87%			
ECO mode	≥ 95%			≥ 96%			≥ 97%			
BATTERIES										
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									
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)									
Operating temperature	0 ~ 40℃									
Relative Humidity	0 ~ 90% (non-condensing)									
Noise level	≤ 50 dB (1 m)									
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 × 201		545×592 ×198	545×782 ×201	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 208 Vac. ●All specifications subject to change without notice.
 ●S means standard model, H means long time model. ●Custom-made specifications are acceptable.