

POWERPURE RT SERIES

1-2-3 kVA **1:1** PHASE 6-10 kVA **1:1** PHASE

ONLINE UPS



Data Center



Medical



Transport



Industry



Emergency

The PowerPure RT Series is an online double conversion

UPS providing stable sine-wave power for your mission

critical equipment. It supports computers, servers, networks,

VoIP and telecommunications

UPS systems and so much more support more critical equipment.

POWERPSONIC
TRUSTED BATTERY SOLUTIONS

power-sonic.com



Home/Office



Emergency



Medical



Industry



Data Center



Transport

POWERPURE RT SERIES

1-2-3 kVA **1:1**
PHASE

ONLINE UPS

FEATURES

- True Online Double Conversion
- LCD Display with Multifunction Settings
- Output Power Factor 1.0
- Wide Input Voltage Range
- Power Shedding Function
- Cold Start Function
- Intelligent Battery Management
- Supports Generator Input
- Powerful Charger for More Efficient Battery Backup
- Eco Operation Mode for Energy Saving
- Hot-Swappable Battery
- Communication Software Supports Windows etc.
- Matching Battery Packs



UPS Online



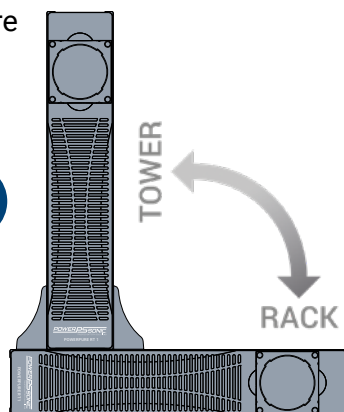
Rack/Tower



Power Factor



Plug & Play



Can be used in a rack or tower formation.

GLOBAL HEADQUARTERS (USA AND INTERNATIONAL EXCLUDING EMEA)

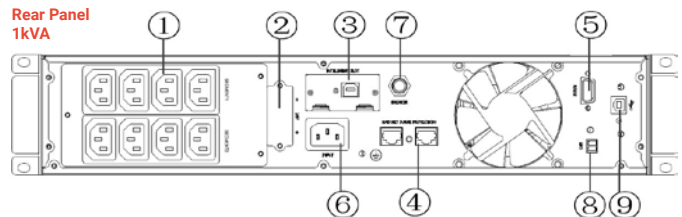
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POWER-SONIC EMEA (EMEA – EUROPE, MIDDLE EAST AND AFRICA)

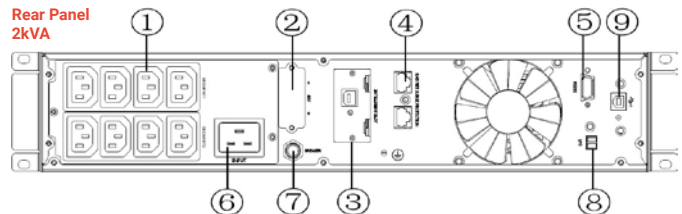
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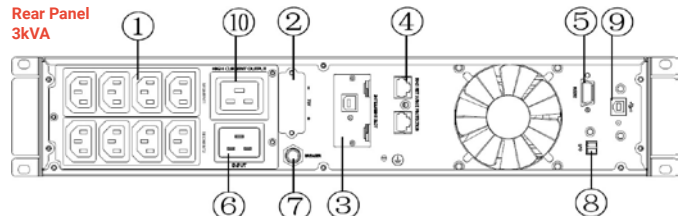
Rear Panel
1kVA



Rear Panel
2kVA



Rear Panel
3kVA



DETAILS

- | | |
|--|-----------------------------|
| 1. Output receptacles (10A) | 7. Input circuit breaker |
| 2. Battery Terminal | 8. EPO |
| 3. SNMP intelligent slot | 9. USB |
| 4. Network /Fax/Modem Surge Protection | 10. Output receptacle (16A) |
| 5. RS-232 communication port | |
| 6. AC input receptacle | |

POWERPURE RT SERIES

1-2-3 kVA **1:1** PHASE ONLINE UPS

MODEL		PowerPure RT 1	PowerPure RT 2	PowerPure RT 3
PHASE			Single phase with ground	
Capacity (VA/Watts)		1000VA / 1000W	2000VA / 2000W	3000VA / 3000W
INPUT				
Nominal Voltage			200/208/220/230/240VAC	
Operating Voltage Range	Low Line Transfer		160Vac±5% @100%-80% load; 140Vac±5% @80%-70% load; 120Vac±5% @70%-60% load; 110Vac±5% @60%-0% load; (Ambient Temp. <35°C)	
	Low Line Comeback		175Vac±5% @100%-80% load; 155Vac±5% @80%-70% load; 135Vac±5% @70%-60% load; 125Vac±5% @60%-0% load; (Ambient Temp. <35°C)	
	High Line Transfer		300Vac ±5%	
	High Line Comeback		290Vac ±5%	
Operating Frequency Range			40-70Hz	
Power Factor			0.99@100% load (Nominal Input Voltage)	
Bypass Voltage Range			Bypass high voltage point 230-264: setting the high voltage point in LCD from 230Vac to 264Vac. (Default: 264Vac)	
			Bypass low voltage point 170-220: setting the low voltage point in LCD from 170Vac to 220Vac. (Default: 170Vac)	
Generator Input			Support	
OUTPUT				
Output Voltage			200/208/220/230/240Vac	
Power Factor			1.0	
Voltage Regulation			±1%	
Frequency	Line Mode (Synchronized Range)		47-53Hz or 57-63Hz	
	Bat. Mode		(50/60±0.1)Hz	
Crest Factor			3:1	
Harmonic Distortion (THDv)			≤2% THDwith linear load ≤4% THD with non linear load	
Waveform			Pure Sinewave	
Transfer Time	AC Mode <-> Batt. Mode		Zero	
	Inverter <-> Bypass		4ms (Typical)	
Efficiency	Line Mode	88%	92%	92%
	Batt Mode	86%	88%	90%

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POWERPURE RT SERIES

1-2-3 kVA **1:1** PHASE ONLINE UPS

MODEL	PowerPure RT 1		PowerPure RT 2		PowerPure RT 3	
PHASE			Single phase with ground			
Capacity (VA/ Watts)	1000VA /1000W		2000VA / 2000W		3000VA / 3000W	
BATTERY						
Battery Type	12V9AH		12V9AH		12V9AH	
Numbers	2		4		6	
Backup Time	Full load 3~5 minutes; estimated remaining time displayed on the LCD					
Typical Recharge Time (Standard Model)	4 hours recover to 90% capacity (Typical)					
Charging Voltage	27.4 VDC ±1%		54.7 VDC ±1%		82.1 VDC ±1%	
Charge Current	2A	12A max, can be setting by LCD	2A	12A max, can be setting by LCD	2A	12A max, can be setting by LCD
SYSTEM FEATURES						
Overload @35°	Line Mode Battery Mode	Ambient Temp.<35°C 105%~110%: UPS transfer to bypass after 10minuteswhen the utility is normal 110%~130%: UPS transfer to bypass after 1minute when the utility is normal 130%~150%: UPS transfer to bypass after 5 seconds when the utility is normal >150%: UPS transfer to bypass immediately when the utility is normal				
		35°C<Ambient Temp.<40°C 105%~110%: UPS transfer to bypass after 1minute when the utility is normal 110%~130%: UPS transfer to bypass after 5 seconds when the utility is normal >130%: UPS transfer to bypass immediately when the utility is normal				
Short Circuit	Hold Whole System					
Overheat	Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately					
Low Battery Voltage	Alarm and Switch off					
EPO (optional)	Shut down UPS immediately					
Audible & Visual Alarms	Line Failure, Battery Low, Overload, System Fault					
Communication Interface	USB (or RS232), SNMPcard (optional), Relay card (optional)					
ENVIRONMENTAL						
Operating Temperature	0°C~40°C					
Storage Temperature	-25°C~55°C					
Humidity Range	20-90 % RH @ 0- 40°C (non-condensing)					
Altitude	< 1500m					
Noise Level	Less than 50dBA at 1 Meter					
PHYSICAL						
Dimension W×H×D (mm)	440*86.5*305		440*86.5*460		440*86.5*600	
Net Weight (kg)	11.3		19.1		26.2	
STANDARDS						
Safety	IEC/EN62040-1,IEC/EN60950-1					
EMC	IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4, IEC61000-4-5,IEC61000-4-6,IEC61000-4-8					

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* Derate to 80% of capacity when the output voltage is adjusted to 200/208VAC
** Product specifications are subject to change without further notice.



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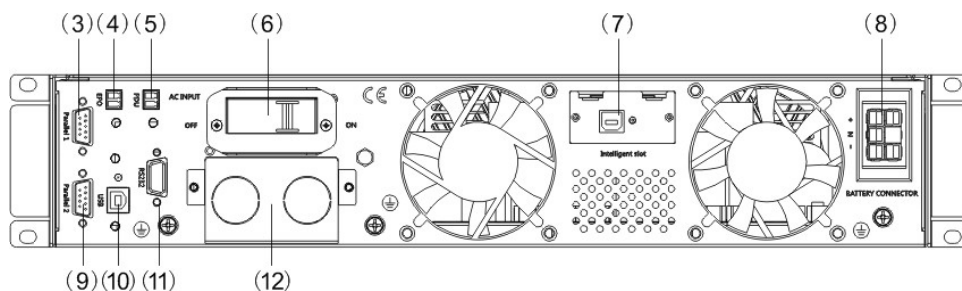
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PHASE

ONLINE UPS



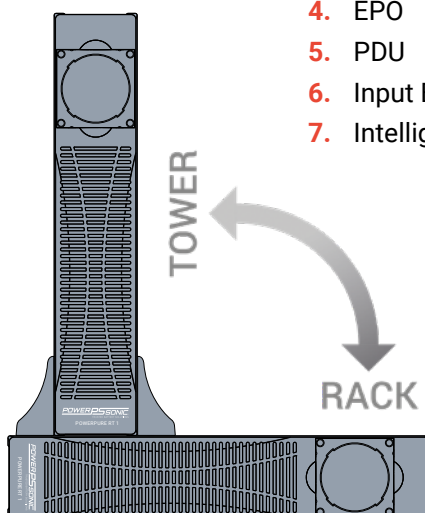
FEATURES

- Online Double Conversion with DSP Control
- High Output Factor at 1.0PF
- Rack/Tower Configuration
- LCD Display with Multifunction Settings
- N+X Parallel Redundancy (up to 4 units can be set in parallel.)
- Cold Start Function
- Low Input Current Distortion
- Efficiency up to 93.5%
- Emergency Power Off
- Eco Operation Mode for Energy Saving
- Temperature Controlled Fan
- Intelligent Battery Management
- Matching battery Packs
- Hot swappable batteries



DETAILS

- | | |
|----------------------------|---------------------------|
| 3. Parallel Port 1 | 8. Battery Slot |
| 4. EPO | 9. Parallel Port 2 |
| 5. PDU | 10. USB |
| 6. Input Breaker | 11. COM (RS232) |
| 7. Intelligent Slot | 12. Terminal |



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MODEL		PowerPure RT 6		PowerPure RT 10	
Capacity		6kVA/6kW		10kVA/10kW	
Type		6kVA ; 10kVA			
INPUT					
Input Mode		Single phase + Ground			
Power Factor		≥0.99			
Rating Voltage		208/220/230/240Vac (can be set)			
Rating Frequency		50Hz/60Hz (auto sensing)			
Voltage Range		120~276Vac			
Frequency Range		45~55Hz/54~66Hz			
Bypass voltage range		220Vac max : 10%, 15%, 20% or 25%, default : 25%			
		230Vac max : 10%, 15% or 20%, default +20%			
		240Vac max : +10% or 15%, default +15%			
Bypass frequency range		min : 20%, 30% or 45%, default 45%			
THDI		±1%, ±2%, ±4%, ±5%, ±10%			
		≤3% (100% linear load, input THDV ≤1%)			
		≤5% (100% non liner load, input THDV ≤1%)			
BATTERY					
Battery Number		20pcs			
Battery Type		VRLA			
Charge Model		Boost charge or float charge auto switch			
Charge Time		Boost charge up to 20Hr (Max)			
Charge Current (A)		1A (S)/10A (H)			
OUTPUT					
Output Type		Single phase + Ground			
Output Precision		±1.0% ;			
Voltage Distortion (THD)		≤2% at 100% liner load			
		≤5% at 100% non-liner load			
Rating Voltage		208/220/230V/240Vac			
Frequency Precision		±0.1%			
Rating Frequency		50Hz/60Hz			
Frequency Track Speed		1Hz/s			
Overload		105%~110%, 10min			
		110%~130% 1min			
		≥130% 200ms			
Peak Value Factor		3:1			
Efficiency at Normal		≥93%			
Dynamic Respond		5.0%			
		20ms			
DC Injection		≤500mV			
SWITCH TIME					
Between Normal mode and battery mode		0ms			
Between inverter and bypass		0ms			
		unlock : <15ms (50Hz), <13.33ms (60Hz)			
ENVIRONMENT & STANDARDS					
Noise		<55dB (1m)			
Display		LCD+LED			
Safety		Meeting IEC62040-1 GB4943.			
Max Input Voltage		320Vac, 1Hr			
EMI	Conduction : IEC 62040-2	Radiation : IEC 62040-2		Harmonics : IEC 62040-2	
EMS		IEC 62040-2			
MTBF		250,000Hr 1 + 1 400,000Hr			
MTTR		30min			
Isolation resistance		> 2MΩ (500Vdc)			
Isolation intension		2820Vdc, <3.5mA, 1min			
Surge		Meeting IEC60664-1 1.2/50uS+8/20uS 6kV/3kA.			
Protection		IP20			
Parallel circumfluence		1 + 1≤8%, N + 1≤3%			
Parallel equal current		1 + 1≤8%, N + 1≤10%			
PHYSICAL					
Dimension W×H×D (mm) and Net Weight (kg)		440*86.5*625	13kg	440*86.5*625	15kg

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