

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

With a 1.0 output power factor, the PowerPure RT Series UPS provides over 30% more power at the output in comparison to standard 0.7 power factor UPS systems and as such can support more critical equipment.

POWERPS^{SONIC}
TRUSTED BATTERY SOLUTIONS

power-sonic.com



POWERPURE RT SERIES

1-2-3 kVA 

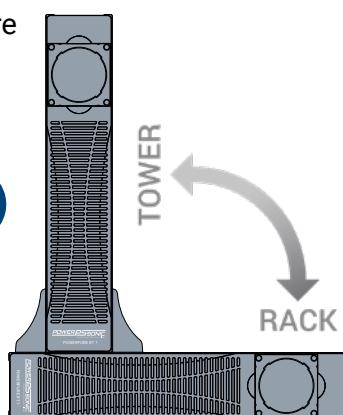
ONLINE UPS

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



Can be used in a rack or tower formation.

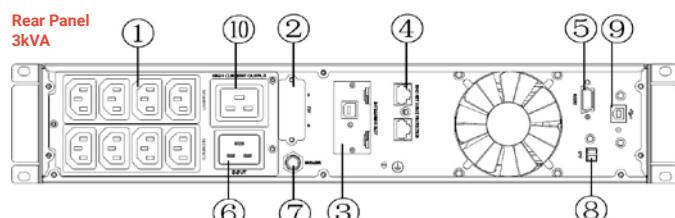
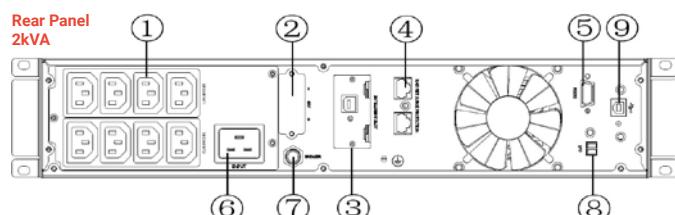
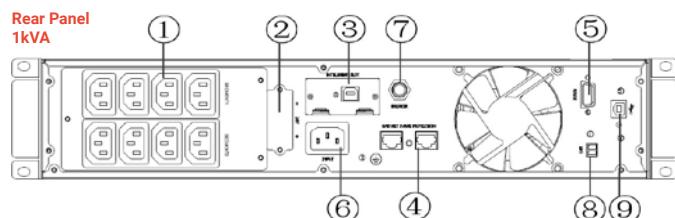


GLOBAL HEADQUARTERS (USA AND INTERNATIONAL EXCLUDING EMEA)

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DETAILS

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

POWERPURE RT SERIES

1-2-3 kVA  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			
Operating Voltage Range	Nominal Voltage	200/208/220/230/240VAC	
	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	<p>Bypass high voltage point 230-264: setting the high voltage point in LCD from 230Vac to 264Vac. (Default: 264Vac)</p> <p>Bypass low voltage point 170-220: setting the low voltage point in LCD from 170Vac to 220Vac. (Default: 170Vac)</p>	
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 (THD)		≤2% THD with 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%
	Batt Mode	86%	90%

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POWERPURE RT SERIES

1-2-3 kVA 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 10minutes when 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 WxHxD (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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6-10 kVA

ONLINE UPS

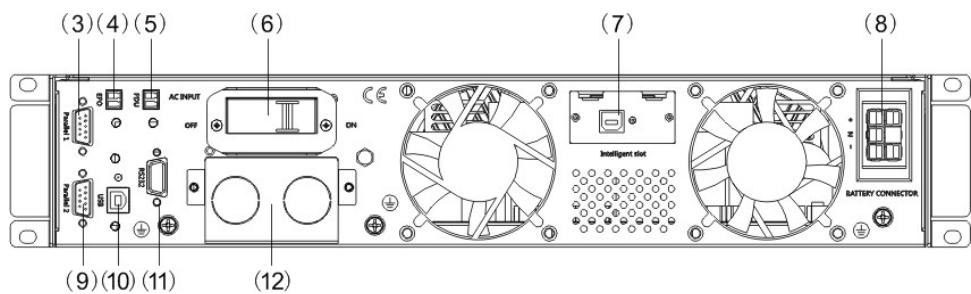
FEATURES

- 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



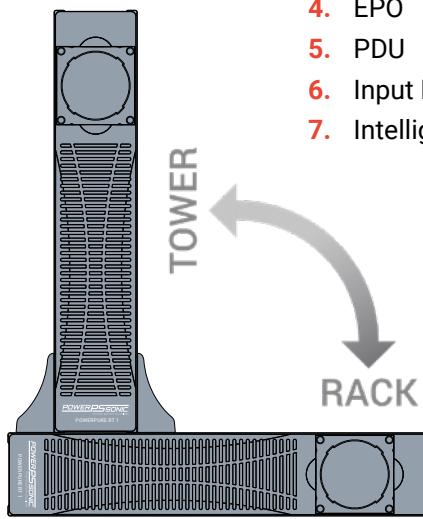
PF = 1.0

Service



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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6-10 kVA 1:1 PHASE ONLINE UPS

MODEL	PowerPure RT 6	PowerPure RT 10
Capacity	6kVA/6kW	10kVA/10kW
Type		
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% min : 20%, 30% or 45%, default 45%	
Bypass frequency range	$\pm 1\%$, $\pm 2\%$, $\pm 4\%$, $\pm 5\%$, $\pm 10\%$	
THDI	$\leq 3\%$ (100% linear load, input THDV $\leq 1\%$) $\leq 5\%$ (100% non liner load, input THDV $\leq 1\%$)	
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	$\pm 1.0\%$; $\leq 2\%$ at 100% liner load	
Voltage Distortion (THD)	$\leq 5\%$ at 100% non-liner load	
Rating Voltage	208/220/230V/240Vac	
Frequency Precision	$\pm 0.1\%$	
Rating Frequency	50Hz/60Hz	
Frequency Track Speed	1Hz/s	
Overload	105%~110%, 10min 110%~130% 1min $\geq 130\%$ 200ms	
Peak Value Factor	3:1	
Efficiency at Normal	$\geq 93\%$	
Dynamic Respond	5.0%	
DC Injection	20ms	
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
EMS	IEC 62040-2	Harmonics : IEC 62040-2
MTBF	250,000Hr 1 + 1 400,000Hr	
MTTR	30min	
Isolation resistance	> 2M Ω (500Vdc)	
Isolation intension	2820Vdc, <3.5mA, 1min	
Surge	Meeting IEC60664-1 1.2/50uS+8/20uS 6kV/3kA.	
Protection	IP20	
Parallel circumfluence	$1 + 1 \leq 8\%$, $N + 1 \leq 3\%$	
Parallel equal current	$1 + 1 \leq 8\%$, $N + 1 \leq 10\%$	
PHYSICAL		
Dimension WxHxD (mm) and Net Weight (kg)	440*86.5*625	13kg
		440*86.5*625
		15kg

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