

**KEEPING YOU IN CHARGE**



**WITH RELIABLE AND  
INNOVATIVE UPS AND ENERGY  
STORAGE SOLUTIONS**

# KEEPING YOU **IN CHARGE**

POWER SONIC HAVE BEEN DELIVERING QUALITY,  
DEPENDABLE AND SAFE BATTERY SOLUTIONS  
WORLDWIDE SINCE 1970.

To ensure business continuity and prevent downtime, Power Sonic offers an extensive portfolio of UPS and energy storage solutions, making sure your critical equipment is supported during power outages and surges. With years of experience and an array of solutions to offer, Power Sonic can help size and choose the right solution to best fit your specific needs.

Our range of solutions include batteries, three phase UPS, modular UPS, demand response modules and custom energy storage solutions.



## KEY MARKETS **INCLUDE**



**Utilities and  
Infrastructure**



**Oils & Gas**



**Data Center**



**Medical**



**Industrial  
Automation**



**Life Safety**

# POWERSTEADY SERIES

400-3000 VA

LINE INTERACTIVE UPS



Home/Office



**The PowerSteady Series by Power Sonic delivers reliable and uninterruptible power protection and battery backup during outages.**

With its compact, space saving design the line interactive UPS secures your data and your equipment by protecting against damaging power surges and spikes. Ideally suited for computer systems, home networking, gaming, home servers and other home and office electronics.

**POWERPS SONIC**  
TRUSTED BATTERY SOLUTIONS

[power-sonic.com](http://power-sonic.com)



Home/Office

# POWERSTEADY SERIES

**400-3000 VA**

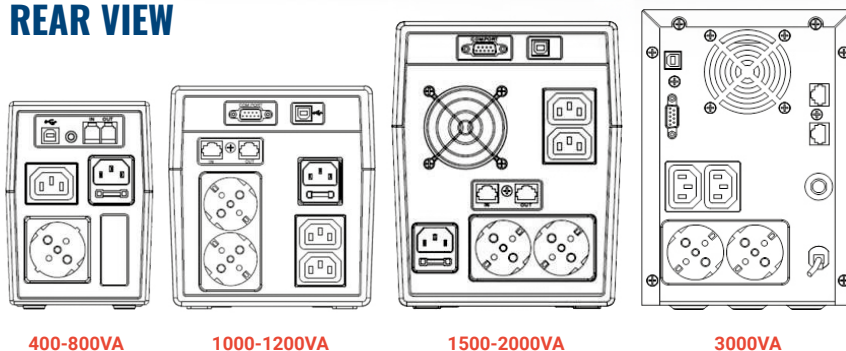
LINE INTERACTIVE UPS

## FEATURES

- Compact space saving design
- LCD display
- Line-interactive technology
- Automatic Voltage Regulation (AVR) with boost and buck function
- Microprocessor control
- Auto charging in off mode
- Auto-restart
- Cold Start Function
- Intelligent battery management
- Smart RS232/USB communication Interfaces
- RJ11/RJ45 protection



## REAR VIEW



400-800VA

1000-1200VA

1500-2000VA

3000VA

## FURTHER INFORMATION

Please refer to our website [www.power-sonic.com](http://www.power-sonic.com) for a complete range of useful downloads, such as product catalogs, material safety data sheets



UPS Line  
Interactive



Tower



Plug & Play



USB



LCD Display  
(200-1500-2000VA)

# POWERSTEADY SERIES

400-3000 VA LINE INTERACTIVE UPS

MODEL	POWERSTEADY 400	POWERSTEADY 600	POWERSTEADY 800	POWERSTEADY 1000	POWERSTEADY 1200	POWERSTEADY 1500	POWERSTEADY 2000	POWERSTEADY 2400	POWERSTEADY 3000
Rated Power	400VA	600VA	800VA	1000VA	1200VA	1500VA	2000VA	2400VA	3000VA
Active Power	240W	360W	480W	600W	720W	900W	1200W	1440W	1800W
INPUT									
Voltage	110/120 VAC or 220/230/240 VAC								
Voltage Range	81-145 VAC / 162-290 VAC								
Frequency Range	60/50 Hz (auto sensing)								
OUTPUT									
AC Voltage Regulation (Batt. Mode)	±10%								
Frequency Range (Batt. Mode)	60 Hz or 50 Hz ±1 Hz								
Transfer Time	Typical 2-6 ms, 10 ms max.							Typical 10 ms, 13 ms max.	
Waveform (Batt. Mode)	Simulated Sine Wave								
BATTERY									
Battery Type & Number	12V/4.5AH x 1	12V/7AH x 1	12V/9AH x 1	12V/7AH x 2	12V/7AH x 2	12V/9AH x 2	12V/9AH x 2	12V/7AH x 4	12V/9AH x 4
Typical Recharge Time	6-8 hours recover to 90% capacity								
INDICATION									
Display	LCD								
PROTECTION									
Full Protection	Overload and overcharge protection								
ALARM									
Battery Mode	Sounding every 10 seconds								
Low Battery	Sounding every second								
Overload	Sounding every 0.5 seconds								
Battery Replacement Alarm	Sounding every 2 seconds								
Fault	Continuously Sounding								
PHYSICAL									
Dimension WxDxH (mm)	101 x 142 x 298			149.3 x 162 x 338		158 x 198 x 380		213 x 145 x 436	
Net Weight (kg)	3.55	4.25	4.7	7.8	8	10.1	10.5	19.8	23
OPERATING ENVIRONMENT									
Humidity	0-90 % RH @ 0-40°C (non-condensing)								
Noise Level	Less than 40dB								
MANAGEMENT									
USB RS-232 Port	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7, Linux, Unix, and MAC								

## FURTHER INFORMATION

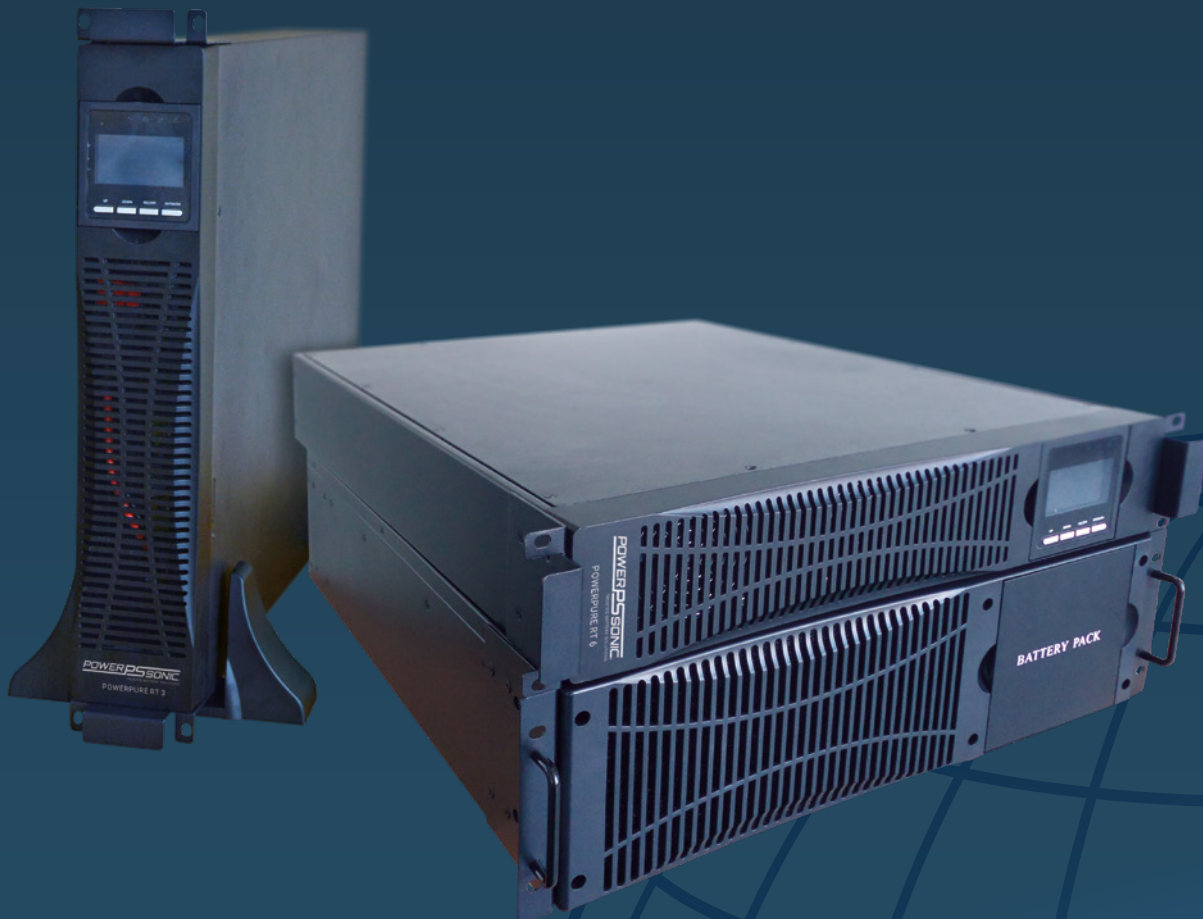
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# POWERPURE RT SERIES

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.**

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.

**POWERPSONIC**  
TRUSTED BATTERY SOLUTIONS

[power-sonic.com](http://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



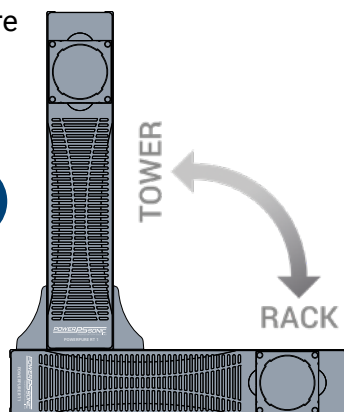
Rack/Tower



Power Factor



Plug & Play



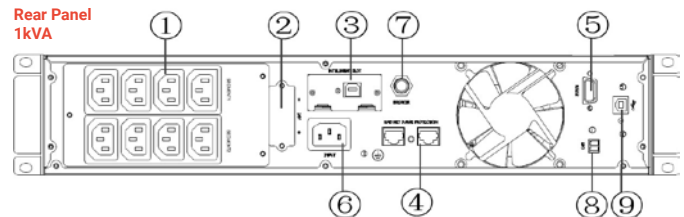
Can be used in a rack or tower formation.

## FURTHER INFORMATION

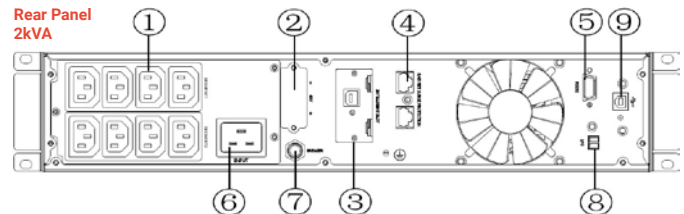
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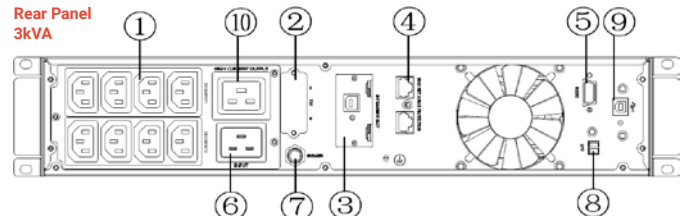
Rear Panel  
1kVA



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		<b>Bypass high voltage point</b> <b>230-264:</b> setting the high voltage point in LCD from 230Vac to 264Vac. (Default: 264Vac)		
		<b>Bypass low voltage point</b> <b>170-220:</b> 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%

## FURTHER INFORMATION

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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	<b>Ambient Temp.&lt;35°C</b> 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					
		<b>35°C&lt;Ambient Temp.&lt;40°C</b> 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					
Comunication 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					

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

## FURTHER INFORMATION

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# POWERPURE RT SERIES

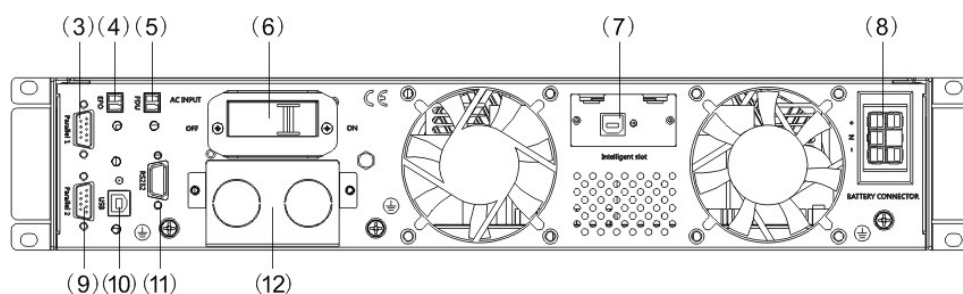
**6-10 kVA** **1:1**  
PHASE

ONLINE UPS



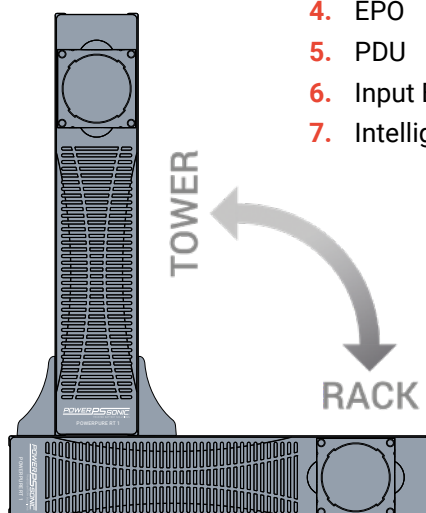
## FEATURES

- 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

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



◀ Can be used in a rack or tower formation.



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# POWERPURE RT SERIES

6-10 kVA **1:1** PHASE ONLINE UPS

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%			
		±1%, ±2%, ±4%, ±5%, ±10%			
THDI		≤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

## FURTHER INFORMATION

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# THE POWER SONIC BRAND PROMISE



## QUALITY

Manufactured using the latest technology and stringent quality control, our battery products are designed to exceed in performance and reliability.



## EXPERIENCE

Our focused approach to exceptional end to end customer experience sets us apart from the competition. From enquiry to delivery and everything in-between we regularly exceed our customers' expectations.



## SERVICE

Delivery on time, every time to customer specifications. We pride ourselves on offering tailored service solutions to meet our customers' exact specifications.



# POWER *PS* SONIC

TRUSTED BATTERY SOLUTIONS

### GLOBAL HEADQUARTERS (USA AND INTERNATIONAL EXCLUDING EMEA)

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To ensure safe and efficient operation always refer to the latest edition of our Technical Manual, as published on our website.

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