

Power Series

PC & WORKSTATION

SOHO & WORKSTATION

NETWORK & SERVER

DATA CENTER & FACILITY

SOFTWARE

HOME & OFFICE APPLIANCES

FACTORY & AUTOMATION EQUIPMENT

PS650D / PS1000D / PS1500D / PS2000D / PS1000D-RM / PS1500D-RM / PS1000D-RT / PS1500D-RT / PS2000D-RT / PS3000D-RT / PS5000D-RT / PS7500D-RT / PS1000D-RT / PS3000DL / PS5000DL / PS7500DL

* PS650D



* PS1000D / PS1500D / PS2000D



* PS1000D-RM / PS1500D-RM (1U)



* PS1000D-RT / PS1500D-RT / PS2000D-RT (2U)



* PS3000D-RT / PS5000D-RT / PS7500D-RT / PS1000D-RT (3U)

Features

- Convertible LCD indicator for both tower & rack-mounted applications
- Pure sine wave for both linear & non-linear loads
- Long backup ability - charge current from 2A to 10A
- Built-in powerful charger with input power factor correction
- Emergency power off function (EPO)
- Multi-interface slot for RS232, SNMP, RS485, Modbus, USB and dry contact
- Multi-interface card provides additional RS232, USB and dry contact communication
- Smart fan speed control
- All communication interfaces can be enabled at the same slot
- Detachable LCD Control Panel
- Overload, overheat and over charge protections
- Surges, spikes and short circuit protections
- Cold start (DC power on)
- User swappable batteries

Functions



Ideal Tower / Rack Convertible Design

Convertible LCD indicator is designed for both tower & rack-mounted applications



User swappable batteries

Easy to replace the batteries by users, simply open the front panel and assemble the batteries.

Options



Detachable LCD Panel

Two-way dialogue LCD control panel can be detached from the unit and extended to 200m



SNMP Card

USB Card

Dry Contact Card



Dry Contact Card (for AS400 & General use)

USB & RS232 Card

Multiple Communication Interface

With the intelligent design, the multi-interface slot and multi-interface card supply various communications including RS232, SNMP, RS485, AS-400, Modbus, USB, dry contact and customized interfaces. All interfaces can be enabled at the same slot.



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Rear Panel

PS800B



230V

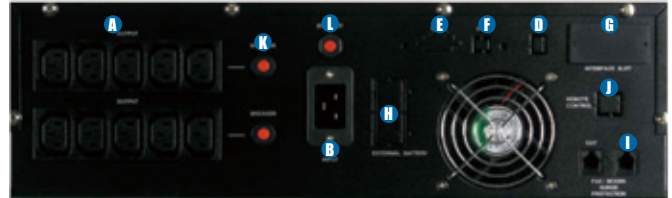
- A** USB
- B** Remote Control
- C** Fax / Modem Surge Protection
- D** Output
- E** Breaker
- F** Input

PS1000D-RM / PS1500D-RM (1U)



230V

PS3000DL / PS3000D-RT Convertible Unit (3U)



230V

PS5000D-RT Convertible Unit (3U)



120V

PS1000D / PS1500D

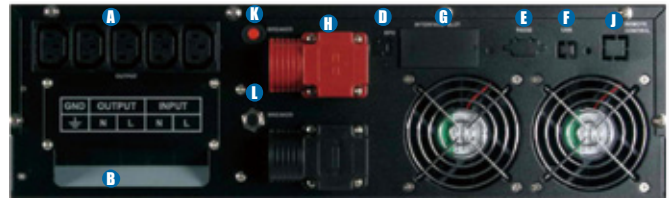


120V



230V

PS5000DL / PS7500D-RT / PS7500DL / PS10000D-RT Convertible Unit(3U)



230V

- A** Remote Control
- B** External Battery
- C** Multi Card Slot
- D** Breaker
- E** Fax / Modem Surge Protection
- F** Output
- G** Input

- A** Output
- B** Input
- C** Breaker
- D** EPO
- E** RS232
- F** USB
- G** Multi Card Slot

- H** External Battery
- I** FAX / Modem Surge Protection
- J** Remote Control
- K** Output Breaker
- L** Input Breaker

Power Series

PS650D / PS1000D / PS1500D / PS2000D / PS1000D-RM / PS1500D-RM / PS1000D-RT / PS1500D-RT / PS2000D-RT

Specifications

Model Name	PS650D	PS1000D	PS1500D	PS2000D	PS1000D-RM	PS1500D-RM	PS1000D-RT	PS1500D-RT	PS2000D-RT	
Topology	Line-interactive, Low Frequency									
On-battery Output Waveform	Pure Sine Wave									
Maximum Capacity	650VA / 406W	1000VA / 625W	1500VA / 938W	2000VA / 1250W	1000VA / 625W	1500VA / 938W	1000VA / 625W	1500VA / 938W	2000VA / 1250W	
Cabinet Type	Tower			1U Rack		2U Tower & Rack Convertible				
INPUT										
Nominal Input Voltage	110 / 120Vac or 220 / 230 / 240Vac*									
Nominal Input Frequency	50Hz~60Hz Auto Sensing									
Input Voltage Range	85Vac ~ 150Vac(110 / 120Vac) or 170Vac ~ 300Vac(220 / 230 / 240Vac)									
OUTPUT										
Nominal Output Voltage	110 / 120Vac or 220 / 230 / 240Vac re-settable via LCD panel									
Output Voltage Regulation	Rated Voltage ±3% (on battery)									
Transfer Time (Typical)	4 ms									
Start on Battery	Yes									
Auto Restart	Yes									
Automatic Voltage Regulation(AVR)	Yes									
Number of Outlets	3 Battery backup (NEMA 15A) 4 Battery backup (IEC 10A)	4 Battery backup (NEMA 15A) 3 Battery backup (IEC 10A)	6 Battery backup (NEMA 15A) 6 Battery backup (IEC 10A)	4 Battery backup (NEMA 15A) 5 Battery backup (IEC 10A)	4 Battery backup (NEMA 15A) 6 Battery backup (IEC 10A)					
PROTECTION										
Data Line Surge Protection	RJ11 (optional)	RJ11			RJ11					
Overload Protection	UPS shuts down at 135% load after 30 secs or 150% load after 200ms									
Over Current Protection	Circuit breaker									
Discharge Protection	Keylock									
BATTERY										
Configuration	12V (12V / 9AH×1)	24V (12V / 7.2AH×2)	36V (12V / 7.2AH×3)	36V (12V / 9AH×3)	24V (12V / 7.2AH×2)	24V (12V / 9AH×2)	24V (12V / 7.2AH×2)	36V (12V / 7.2AH×3)	36V (12V / 9AH×3)	
Backup Time (Full / Half Load)	3 / 11min	3 / 11min	4 / 11min	3 / 10 min	3 / 11min	5 / 15 min	3 / 11min	4 / 11min	3 / 10 min	
Recharge Time to 90% (Typical)	< 4 Hours									
ADVANCED WARNINGS / DIAGNOSTICS										
Front Panel	LED: Normal (Green)	LCD: UPS status, I / P&O / P Voltage Frequency, Load Level, Battery Voltage & Level, Temperature, Model								
Audible Alarms	LED: Normal (Green), Warning (Amber), Fault (Red) Battery mode / UPS fault / Overload									
COMMUNICATION INTERFACE										
Communication Port	USB (Remote control optional)	RS232, Remote Control (Optional interface of USB, Dry Contact, SNMP, RS485, AS400 or Modbus)			RS232 (Optional interface of USB, Dry Contact, SNMP, RS485, AS400, Modbus or Remote Control)					
ENVIRONMENTAL										
Operation Temperature	0~40°C / 32~104°F									
Storage Temperature	-20~60°C / -4~140°F									
Relative Humidity	0~95% Non condensing									
Audible Noise	< 45 dBA									
PHYSICAL										
Dimensions	Physical / Packing (in)	4.6×12.8×5.2 / 8.7×16×6.5	5.8×8.4×15.2 / 10×12.8×20.4	5.8×8.4×17.8 / 10×12.8×20.4	17.6×1.76×20.6 / 24.4×9.2×22.2			17.6×3.52×18.6 / 24.4×9.2×22.2		
	W×H×D(mm)	115×322×130 / 221×406×166	145×210×380 / 250×320×510	145×210×445 / 250×320×510	440×44×515 / 610×230×555			440×88×465 / 610×230×555		
Weight (Net / Gross)	lbs	13.7 / 18.5	36.4 / 41.3	38.6 / 41.7	42.8 / 47.2	39.7 / 42.8	44.2 / 47.2	35.8 / 38.9	38.6 / 41.7	54.1 / 59
	kg	6.2 / 8.4	16.5 / 18.7	17.5 / 18.9	19.4 / 21.4	18 / 19.4	20 / 21.4	16.2 / 17.6	17.5 / 18.9	24.5 / 26.7

Specifications are subject to change without notice.

* Models of these nominal voltages are available, however each model is preset to a certain nominal voltage, which is not user-changeable.

For special application >20A max. current is settable, please specify when ordering.



Power Series

PS3000D-RT / PS5000D-RT / PS7500D-RT / PS10000D-RT /
PS3000DL / PS5000DL / PS7500DL

Specifications

Model Name	PS3000D-RT	PS5000D-RT	PS3000DL	PS5000DL	PS7500D-RT	PS10000D-RT	PS7500DL
Topology	Line-interactive, Low Frequency						
On-battery Output Waveform	Pure Sine Wave						
Maximum Capacity	3000VA / 1875W	5000VA / 3125W	3000VA / 1875W	5000VA / 3125W	7500VA / 4688W	10KVA / 6250W	7500VA / 4688W
UPS Type	Tower & Rack Convertible		Long backup time		Tower & Rack Convertible		Long backup time
Cabinet Type	3U Rack & Tower Convertible						
INPUT							
Nominal Input Voltage	110 / 120Vac or 220 / 230 / 240Vac*				220 / 230 / 240Vac*		
Nominal Input Frequency	45~70Hz Auto Sensing				45~70Hz Auto Sensing		
Input Voltage Range	85Vac ~ 150Vac or 170Vac ~ 300Vac				170Vac ~ 300Vac		
OUTPUT							
Nominal Output Voltage	110 / 120Vac or 220 / 230 / 240Vac re-settable via LCD panel				220 / 230 / 240Vac re-settable via LCD panel		
Output Voltage Regulation	Rated Voltage $\pm 3\%$ (on battery)						
Transfer Time (Typical)	4 ms						
Start on Battery	Yes						
Auto Restart	Yes						
Automatic Voltage Regulation(AVR)	Yes						
Number of Outlets	8 Battery backup (NEMA 15A) 10 Battery backup (IEC 10A)	8 Battery backup (NEMA 15A) + 1 terminal block 10 Battery backup (IEC 10A)+ 1 terminal block	8 Battery backup (NEMA 15A) 10 Battery backup (IEC 10A)	4 Battery backup (NEMA 15A) + 1 terminal block 5 Battery backup (IEC 10A)+ 1 terminal block			
PROTECTION							
Data Line Surge Protection	RJ11						
Overload Protection	UPS shuts down at 135% load after 30 secs or 150% load after 200m secs						
Over Current Protection	Circuit breaker						
Discharge Protection	Keylock						
BATTERY							
Configuration	36V (12V / 7.2AHx3) / 2sets	48V (12V / 9AHx4) / 2sets	36V / no batt	48V / no batt	48V (12V / 7.2AHx4) / 4 sets	48V (12V / 9AHx4) / 4sets	48V / no batt
Backup Time (Full / Half load)	4 / 11min	3 / 11min	Depends on overall battery capacity		4 / 12 min	3 / 12 min	Depends on overall battery capacity
Recharge Time to 90% (Typical)	< 4 Hours				< 4 Hours		
ADVANCED WARNINGS / DIAGNOSTICS							
Front Panel	LCD: UPS status, I/P & O/P Voltage Frequency, Load Level, Battery Voltage & Level, Temperature, Model LED: Normal (Green), Warning (Amber), Fault (Red)						
Audible Alarms	Battery mode / UPS fault / Overload						
COMMUNICATION INTERFACE							
Communication Port	RS232 (Optional interface of USB, Dry Contact, SNMP, RS485, AS400, Modbus or Remote Control)						
ENVIRONMENTAL							
Operation Temperature	0~40°C / 32~104°F						
Storage Temperature	-20~60°C / -4~140°F						
Relative Humidity	0~95% Non condensing						
Audible Noise	< 45 dBA						
PHYSICAL							
Dimensions	Physical / Packing (in)	17.6x5.28x18.6 / 28.8x16x21.6	17.6x5.28x24.8 / 28.8x16x21.6	17.6x5.28x18.6 / 28.8x16x21.6			
	WxHxD (mm)	440x132x465 / 720x400x540	440x132x620 / 720x400x540	440x132x465 / 720x400x540			
Weight (Net / Gross)	lbs	81.5 / 92.6	110 / 134.3	55.3 / 76.9	69.8 / 91.5	172.6 / 196.5	80 / 100
	(kg)	36.9 / 41.9	49.8 / 60.8	25 / 34.8	31.6 / 41.4	78.1 / 88.9	36.2 / 45.4

Specifications are subject to change without notice.

* Models of these nominal voltages are available, however each model is preset to a certain nominal voltage, which is not user-changeable.

For special application >20A max. current is settable, please specify when ordering.

PS3000DL / PS5000DL / PS10000DL are long backup models, the batteries are not available inside. An external battery pack must be used.

3U External battery packs for PS-DL models: BP PS16D (16pcs 12V / 7Ah or 16pcs 12V / 9Ah, Dimension: 440(W)x132(H)x465(D)mm).

