

Durable Series

An Online UPS is not a further improvement of the standby technology, but a completely different approach to providing the highest level of power supply. A double-conversion refers to converting the incoming AC power into DC power, and inverting it back to AC power. This ensures the newly reproduced power to be of a quality standard set by UPS, to be completely cleared of all imperfections of the power coming from the AC mains. Regardless of what is happening on the AC mains side, the UPS output voltage, frequency and signal purity are kept up to the highest standards. The current flow is absolutely uninterruptible, the transfer time is zero. The UPS can work in pair with diesel generator, and can accommodate additional battery cabinets for a longer backup time.

Beside those, the Durable Series UPS offer a set of essential features that make these UPS a flexible power supply control and power saving tool.

By now the Durable Series UPS perfectly serve their purpose in numerous data processing, medical, banking and other mission critical centres around the globe.

DS-B 1K-3K

Features

- Zero transfer time (online)
- Smart fan speed control
- Saves more power and minimizes noise
- 4 hours recharge time
- Cold start (DC power on)
- EPO port ready: emergency power off switch
- SNMP card slot available
- Hot swappable / replaceable battery: continuous operation even when battery is being replaced
- Extended battery pack (optional)
- RS232 and USB port
- Full version of OPTI-SAFE software

Specifications

Model Name	DS1000B	DS1500B	DS2000B	DS3000B	
Topology	True On-Line, Double Conversion, High Frequency				
On-battery Output Waveform	Pure Sine Wave				
Maximum Capacity	1000VA / 700W	1500VA / 1050W	2000VA / 1400W	3000VA / 2100W	
INPUT					
Nominal Input Voltage	100 / 110 / 120Vac or 220 / 230 / 240Vac				
Nominal Input Frequency	50Hz / 60Hz Auto Sensing				
Input Voltage Range	80-144Vac (100 / 110 / 120Vac) or 160-276Vac (220 / 230 / 240Vac)				
OUTPUT					
Nominal Output Voltage	100 / 110 / 120 / 127Vac or 220 / 230 / 240Vac (selectable)				
Output Voltage Regulation	Rated Voltage $\pm 2\%$ (on battery)				
Transfer Time (Typical)	0 ms				
Start on Battery	Yes				
Auto Restart	Yes				
Number of Outlets	6 Battery backup (NEMA 15A) 4 Battery backup (IEC 10A)		12 Battery backup (NEMA 15A) 9 Battery backup (IEC 10A \times 8 / 16A \times 1)	12 Battery backup (NEMA 15A)	
PROTECTION					
Data Line Surge Protection	RJ11 / RJ45				
Surge Energy Rating	125 Joules (100 / 110 / 120Vac) or 280 Joules (220 / 230 / 240Vac)				
Overload Protection	UPS shuts down at 110% load after 10 secs or 130% load after 1.5 secs				
Over Current Protection	Circuit Breaker				
Discharge Protection	Keylock				
BATTERY					
Configuration	36V (12V 7.2AH \times 3)	36V (12V 34W \times 3)	72V (12V 7.2AH \times 6)	72V (12V 34W \times 6)	
Backup Time (Full / Half load)	6 / 18 min	5 / 15 min	6 / 18 min	5 / 15 min	
Recharge Time to 90% (Typical)	< 4 Hours				
Extended Battery Pack (Optional)*	BP1000: 12V 7.2AH \times 6	BP1500: 12V 34W \times 6	BP2000: 12V 7.2AH \times 12	BP3000: 12V 34W \times 12	
ADVANCED WARNINGS / DIAGNOSTICS					
Front Panel	AC mode / On line / On battery / Bypass / Fault / Overload and 15 UPS Status				
Audible Alarms	Battery mode / UPS faults / Overload				
COMMUNICATION INTERFACE					
Communication Port	RS232 and USB#				
SNMP Manageable	Yes				
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	<40dBA				
PHYSICAL					
Dimensions (LxWxH)	Physical	420 \times 152 \times 238mm		420 \times 225 \times 358mm	
	Packing	545 \times 280 \times 355mm		526 \times 350 \times 485mm	
Weight	Net	16.5kg	17.1kg	31.1kg	33kg
	Gross	18.4kg	19kg	33.6kg	35.5kg
Battery Pack Dimensions (LxWxH)	Physical	420 \times 152 \times 238mm		420 \times 225 \times 358mm	
	Packing	545 \times 280 \times 355mm		526 \times 350 \times 485mm	
Battery Pack Weight	Net	21.1kg		40kg	
	Gross	22.6kg		44.5kg	
CONFORMANCE					
Approvals	UL / cUL, CE, GOST-R				

Specifications are subject to change without notice.

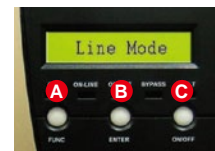
* Typical backup time depends on power consumption of equipment attached and on UPS battery capacity. Values here are for reference only.

** The external battery pack is optional. Battery pack needs to be connected to UPS before connecting any load and turning on the UPS.

The model with optional USB port provides both RS232 and USB connectivity, but only one connectivity can be used at the same time.



Front Panel



- A** Function
- B** Enter
- C** On / Off

Rear Panel

DS1000B / DS1500B



100V / 110V / 120V



220V / 230V / 240V

DS2000B



100V / 110V / 120V



220V / 230V / 240V

DS3000B



100V / 110V / 120V



220V / 230V / 240V

- 1** Battery Backup Outlets
- 2** RS232
- 3** Data Line Protection
- 4** USB
- 5** Circuit Breaker
- 6** Input
- 7** Extended Battery Connector
- 8** SNMP Card Slot
- 9** EPO