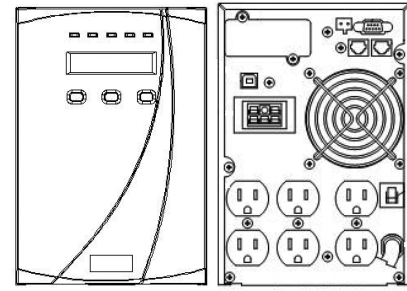


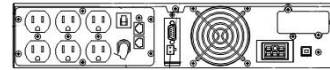
# DS SERIES

## 1-3KVA



DSO 1K  
FRONT PANEL

DSO 1K  
REAR PANEL



DSO 1K  
RACK MOUNT REAR PANEL

**ONLINE UPS:** Zero Transfer Time  
Absolutely no interruption of application when current is transferred to and from battery. Typically, UPS has a minimum of four milliseconds to transfer power but the online UPS has no transfer times, which means constant power is supplied to your system and equipment.

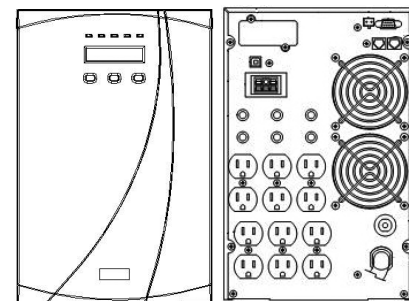
DSO-B series offers the highest performance protection for servers, networking equipment, telecommunication systems, and other critical equipment. The double conversion online topology protects against all brownouts, blackouts, voltage fluctuations, and surges. True sinewave output and zero transfer time ensures perfect protection.

**SINEWAVE:** Represents energy entirely concentrated at a single frequency. The more concentrated the energy is, the cleaner and safer the current will be.

There are four tower models and four rack mount models from DS01000B to DS03000RM to serve your every need.

### FEATURES:

- True online double conversion design
- Pure sinewave output with less than 3% THD
- Fully digitized microprocessor control
- Selectable UPS output voltage
- Cold start function (DC power on)
- Smart fan speed control
- Emergency power off function (EPO) on select models
- Lightning and surge protection
- Fax/Modem/LAN data line surge protection
- Advanced battery management (ABM)
- Automatic diagnostics and battery check-up
- Extended battery pack available on select models
- RS232 and USB communication ports, UPS monitoring software



DSO 2K 3K FRONT  
PANEL

DSO 2K 3K REAR  
PANEL



DSO 2K 3K RACK MOUNT  
REAR PANEL

Computer Protection  
Systems

WHEN FAILURE IS NOT AN OPTION



800.804.6933

[ups.cashmanequipment.com](http://ups.cashmanequipment.com)

UPS | SOLAR | AUTOMATIC VOLTAGE REGULATION | INVERTERS  
SURGE SUPPRESSION & PROTECTION | NETWORK | SCADA COMPATIBLE

# DS SERIES

## SPECIFICATIONS

MODEL	DS01000B-RM	DS02000B-RM	DS03000B-RM
Topology		True Online, Double Conversion	
On-battery Output Waveform		True Sinewave	
Number of Phase		Single Phase (2W+G)	
<b>INPUT</b>			
Maximum Capacity	1000VA/700W	2000VA/1400W	3000VA/2100W
Nominal Input Voltage		100/110/120Vac or 220/230/240Vac	
Input Voltage Regulation		80-144Vac or 160-276Vac	
Nominal Input Frequency		50Hz/60Hz Auto Sensing	
Input PFC		>.97 @ full load	
Input Voltage Range		Rated Voltage+/-25%	
Input Short Protection		Circuit Breaker	
<b>OUTPUT</b>			
Nominal Output Voltage		100/110/115/120/127Vac or 208/220/230/240Vac	
Output Voltage Regulation		Rated Voltage +/-2%	
Output T.H.D.		<3% T.H.D @ Linear Load	
High Efficiency Mode (AC to AC)		92%	
Crest Factor		3:1	
Start on Battery		Yes	
Auto Restart		Yes	
Number of Outlets	6 Battery Backup (US) 4 Battery Backup (IEC)		12 Battery Backup (US) 9 Battery Backup (IEC320 10Ax8, IEC320 16Ax1)
<b>PROTECTION</b>			
Data Line Surge Protection		RJ11/RJ45	
<b>BATTERY</b>			
User Replaceable Batteries	36V/12V7.2AHx3	72V/12V7.2AHx6	72V/12V34Wx6
Typical Backup Time (Full/Half Load)		* 6/18 mins	
Recharge Time to 90%		< 4 Hours	
Extended Battery Pack	BP1000/RM	BP2000/RM	BP3000/RM
<b>ADVANCED WARNINGS / DIAGNOSTICS</b>			
Front Panel LEDs or LCD		AC Mode /Online/On Battery/Bypass/Fault/Overload & 15 UPS Parameters	
Audible Alarms		Battery Mode / UPS Fault / Overload	
<b>COMMUNICATIONS INTERFACE</b>			
Communication Port		RS232 & USB	
SNMP Manageable		Yes	
<b>ENVIRONMENTAL</b>			
Operating Temperature		0°-40°C / 32° ~ 104°F	
Storage Temperature		-20°-60°C / -4° ~ 140°F	
Relative Humidity		0~95% Humidity, non-condensing	
Audible Noise		<40 dBA (at 1 meter from surface)	
<b>PHYSICAL</b>			
Dimensions (Physical/Packing) (in)	16.5x6x9.4 / 21.5x11x14	16.5x8.9x14.1 / 20.7x13.8x19.1	
(L x W x H) (mm)	420x152x238 / 545x280x355	420x225x358 / 526x350x485	
Weight (Net/Gross) (lbs)	37.7/41.6	68.4/73.9	72.6/78.1
(kg)	16.5/18.4	31.1/33.6	33/35.5
<b>CONFORMANCE</b>			
Approvals		UL /cUL; C-Tick, A-Tick; GOST-R	



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\*Backup time depends on power consumption of equipment attached and on UPS battery capacity. Numbers here are for reference only. Specifications are subject to change without notice.