

Durable Series

For data centers and mission critical systems

DS6000B/ DS6KBT/ DS8000B/ DS8KBT/ DS10000B/ DS10KBT/ DS12000B/ DS12KBT/ DS15000B/ DS15KBT/ DS20000B/ DS20KBT
Online Double Conversion 1-phase input 1-phase output UPS

- * Online double conversion design
- * Pure sine wave output with less than 3% THD
- * Fully digitized microprocessor control
- * Power factor correction
- * Selectable UPS output voltage
- * High efficiency mode
- * Cold start function (DC power on)
- * Emergency power off function (EPO)
- * Lightning and surge protection
- * Short circuit and overload protection
- * Fax/Modem/LAN data line surge protection
- * Advanced battery management (ABM)
- * Automatic battery charging in UPS OFF mode
- * Automatic diagnostics and battery check-up
- * Extended battery pack available
- * Multilanguage LCD display
- * RS232 and USB Communication ports, UPS monitoring software



* DS6000B

Specifications

Model Name	DS6000B / DS6KBT	DS8000B / DS8KBT	DS10000B / DS10KBT	DS12000B / DS12KBT	DS15000B / DS15KBT	DS20000B / DS20KBT
Topology	True On-Line, Double Conversion					
On-battery Output Waveform	True Sine Wave					
Maximum Capacity	6000VA / 4200W	8000VA / 5600W	10000VA / 7000W	12000VA / 8400W	15000VA / 10500W	20000VA / 14000W
INPUT						
Nominal Input Voltage	220V / 230V / 240Vac					
Input Voltage Regulation	180-276Vac					
Nominal Input Frequency	50Hz / 60Hz Auto Sensing					
Input PFC	0.95					
Input Protection	Circuit Breaker					
OUTPUT						
Nominal Output Voltage	2x0V (1Φ, 2wires) or 1X0 / 2X0V (1Φ, 3wires, with ISO)					
Output Voltage Regulation	Rated Voltage +/- 2%					
Output T.H.D	< 3% T.H.D. at linear load					
High Efficiency Mode (AC to AC)	> 97%					
Crest Factor	3:1					
Start on Battery	Yes					
Auto Restart	Yes					
Transfer Time	0 ms					
PROTECTION						
Data Line Surge Protection	RJ11 / RJ45					
Overload Protection	125% Load for 1minute 150% of 10seconds(on-line), 130% Load for 10seconds >130% of 1.5seconds(on-battery)					
Short Circuit Protection	RJ11 / RJ45					
BATTERY						
User Replaceable Battery	12V / 7.2Ah x 20 x 1 set	12V / 9Ah x 20 x 1 set	12V / 12Ah x 20 x 1 set	12V 7.2Ah x 20 x 2 sets	12V 9Ah x 20 x 2 sets	12V 9Ah x 20 x 2 sets
Typical Backup Time (Full / Half load)*	7 / 20 min	4 / 13 min	4 / 14 min	6 / 21 min	4 / 15 min	4 / 14 min
Recharge Time to 90% (Typical)	< 4 Hours					
Extended Battery Pack (Optional)**	BP6000					
ADVANCED WARNINGS / DIAGNOSTICS						
Front Panel	On / On Line / On Battery / Bypass / Fault and 15-UPS status LCD display					
LED Panel	UPS Line-Mode (green) / On (green) / Battery Mode (yellow) / Bypass (yellow) / Fault (red)					
Audible Alarms	Battery Mode / Battery Test / Replace Battery / Low Battery / UPS fault / Overload					
UPS Fault	Continuous beeping sound and LCD display indication					
COMMUNICATION INTERFACE						
Communication Port	RS232 & USB#					
SNMP Manageable	Yes					
ENVIRONMENTAL						
Operation Temperature	0°~40°C / 32°~104°F					
Relative Humidity	0~95% humidity, non-condensing					
Audible Noise	< 55 dBA					
PHYSICAL / DS-B						
Dimensions (Physical / Packing) (LxWxH)	(in) 23.2x10.1x22.4 / 30.3x16.1x31.5 (mm) 590x257x570 / 770x410x800	27.2x10.1x27.6 / 34.3x16.9x36.2 690x257x700 / 870x430x920	27.2x13.5x34.6 / 35.0x20.7x43.6 690x342x878 / 888x527x1108	29.7x13.5x35.6 / 37.2x19.7x44.7 755x342x905 / 945x500x1135		
Weight (Net / Gross)	(lbs) 191.6 / 233.5 (kg) 87 / 106	237.9 / 281.9 108 / 128	242.3 / 286.3 110 / 130	418.9 / 460.8 190 / 209	451.9 / 496 205 / 225	468.1 / 505.5 212.5 / 229.5
PHYSICAL / DS-BT						
Dimensions (Physical / Packing) (LxWxH)	(in) 23.2x10.1x27.6 / 29.9x16.3x36.6 (mm) 590x257x700 / 760x415x930	27.2x13.5x28.1 / 34.3x19.7x37.2 690x342x715 / 870x500x945	27.2x13.5x34.6 / 35.0x20.7x43.6 690x342x878 / 888x527x1108	29.7x13.5x35.6 / 37.2x19.7x44.7 755x342x905 / 945x500x1135		
Weight (Net / Gross)	(lbs) 270.9 / 319.4 (kg) 123 / 145	350.5 / 396.8 159 / 180	529.1 / 571 240 / 259	590.8 / 634.9 268 / 288	633.2 / 670.7 287.5 / 304.5	
CONFORMANCE						
Approvals	CE					

Specifications are subject to change without notices.

* 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.

DS-BT models include output ISO transformer.



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Front Panel

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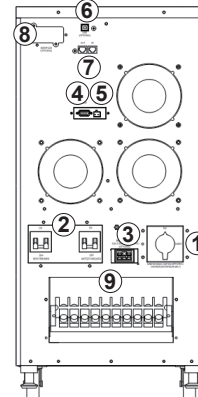
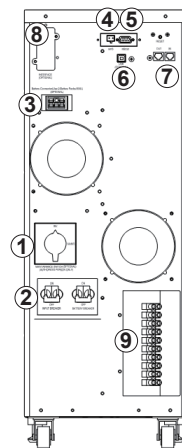
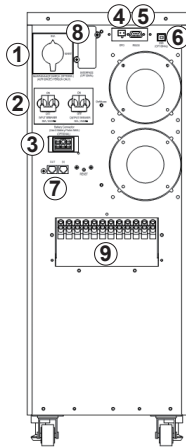
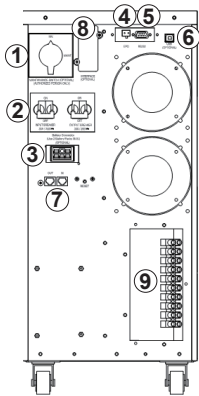
Rear Panel

DS6000B

DS6KBT

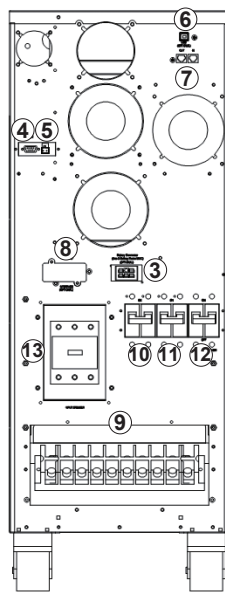
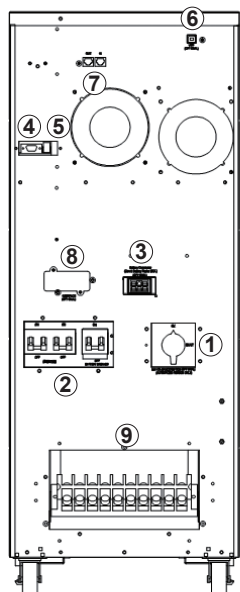
DS8000B/
DS10000B

DS8KBT/
DS10KBT



DS12000B/
DS12KBT

DS15000B/ DS15KBT/
DS20000B/ DS20KBT



- ① Maintenance Switch
- ② Input Breaker/ Output Breaker (6K)
Input Breaker/ Battery Breaker (8K~20K)
- ③ Extended Battery Connector
- ④ EPO
- ⑤ RS232
- ⑥ USB
- ⑦ Data Line Protection
- ⑧ Snmp Card Slot
- ⑨ Terminal Block
- ⑩ Battery Breaker
- ⑪ Maintenance Breaker
- ⑫ Inverter Breaker
- ⑬ Input Breaker