



Smart Online Single Phase UPS
Double Conversion Technology
Pure Sine Wave



U10B Series

(1,2,3,6,10KVA)



- Dalton is aspire to introduce the latest DSP true on-line double conversion UPS for protecting small and medium sized mission medical, critical & IT loads so as to safeguard your valuable equipment and critical data from any interrupted power, such as surges, blackouts and lighting strikes.

- Transformer less UPS Technology
- High Efficiency 94% ECO mode
- Full digital control system
- Maintenance Bypass Switch
- High Input Power Factor
- Optional SNMP Communication Port
- Output power factor 0.8
- Low input current value (THD<3%)
- Cold Start Function
- Automatic Battery Test
- Wide input range
- 15 Years Spare parts Support

LCD Smart Display

Dalton U10B The front display panel provides all major systems parameters and operational status of the UPS that include full diagnostics for simple, easy servicing. The NS series UPS with DSP control, systematically checks each component and displays the result using on LCD display. This feature allows service technicians the ability to pinpoint and repair the UPS very quickly.



User friendly large LCD screen

Simple Network Management Protocol (SNMP)

U10B provide a SNMP which is a popular protocol for network management. It is used for collecting information from, and configuring, network devices, such as servers, printers, hubs, switches, and routers on an Internet Protocol (IP) network

Advanced communications

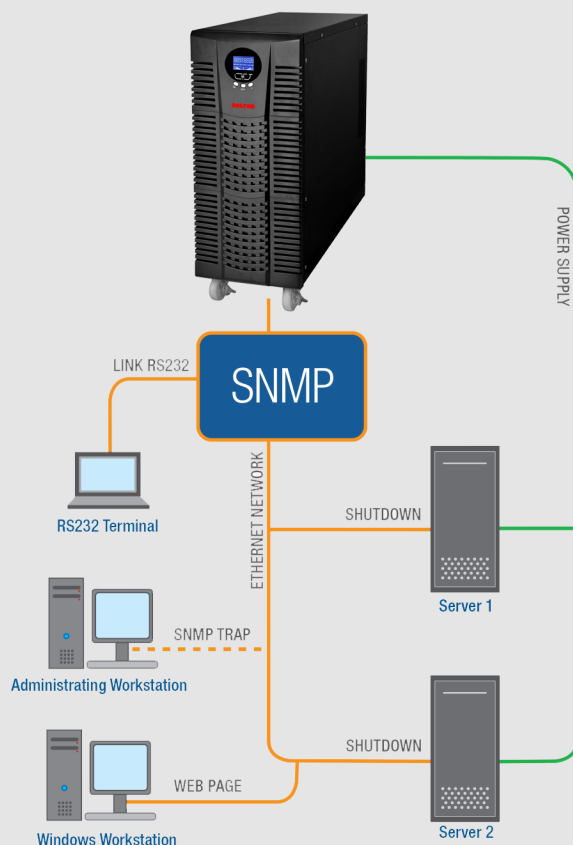
Software support most OS for remote monitor and control UPS through LAN, warning

notifications through broadcast and mobile phone, multi-shutdown PCs, and schedule UPS self-test.

This unique software provides complete power protection for computer system during power failure.



Direct Connection with Ethernet Network



Simplified installation

- U10B can be installed on a single-phase or three-phase distribution network STW 8000 and STW 10000.
- Output terminal board + 2 IEC sockets for powering local consumers (computers, devices, etc.).
- Simplified positioning (built-in castors).

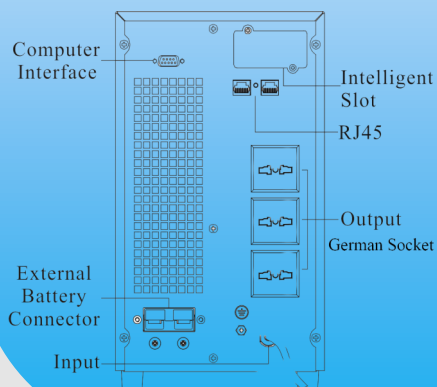
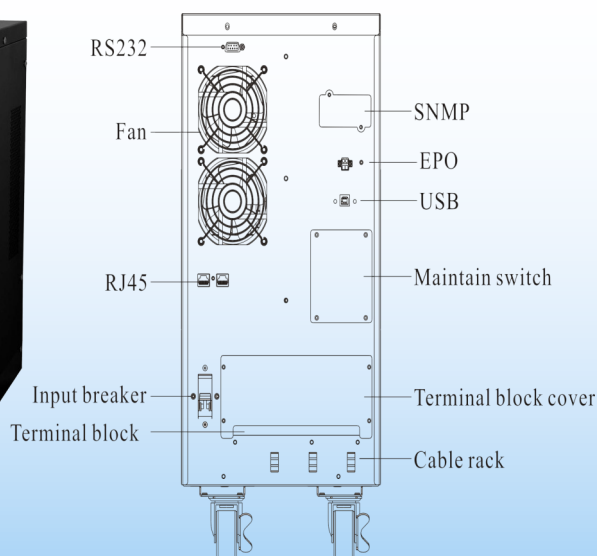
High battery reliability

- Automatic and manual battery test.
 - Proper battery care is critical to ensuring correct UPS operation in emergency conditions.
- The Dalton UPS battery care system consists of a series of features and capabilities to optimise battery management and obtain the best performance and operating life possible.
- Unlimited extendable runtime using matching Battery Boxes.
 - The batteries do not cut in during mains failures



Maintenance bypass switch

The maintenance bypass switch located on the rear of the unit is internally interlocked with the static transfer switch. Removal of the secure panel will safely activate the internal bypass and protect the UPS from misuse.



Front & Rear Panel Explanation

Dalton U10B Front of the contain only the LCD display.

The back of the UPS consists of the following parts, user interface:

- USB interface
- Terminal Resistor for Parallel Function
- CAN Bus Connection Port for Parallel System
- Customer Options Slot 1
- Customer Options Slot 2
- Cooling Fan
- External Battery Connector
- External Charger Connector
- Utility Input Breaker CB1
- Bypass Input Breaker CB2 (for Dual Input Model Only)
- CAM Switch (Maintenance Bypass Switch)
- Input / Output Terminal Block
- EPO (Emergency Power Off)
- Air ventilation .

Technical Specifications

Model			U10B 1K	U10B 1KS	U10B 2K	U10B 2KS	U10B 3K	U10B 3KS	U10B 6K	U10B 6KS	U10B 10K	U10B 10KS	
Power Rating			1KVA/800W		2KVA/1600W		3KVA/2400W		6KVA/4.8KW		10KVA/8KW		
Input	Input system		Single phase & earth ground										
	Voltage range		(100±5)VAC~ (300±5)VAC						(110±5)VAC~ (270±5)VAC				
	Power factor		≥0.99										
	Voltage range of bypass		(90±5)VAC~ (276±5)VAC (default: 80VAC~264VAC Easy software adjusted)						(60±5)VAC~ (310±5)VAC (default: 90VAC~274VAC Easy software adjusted)				
Output	Output system		Single phase & earth ground										
	Rated voltage		200V/208V/220V/230V/240V										
	Power factor		0.8										
	Voltage precision		±2%						±1%				
	Voltage distortion		≤ 3% at linear load						≤ 2% at linear load				
	Output waveform		Pure Sinewave										
	Output frequency	Normal mode	The output frequency synchronizes with the input frequency when input frequency is in the range of46Hz~54Hz.										
		Battery mode	The output frequency is 50Hz when input frequency is not in the range of 46Hz~ 54Hz.3.Can be set as 60Hz.										
	Efficiency	ECO mode	90%						94%				
		Online mode	88%						92%				
	Inverter overload capacity (Utility power, 25°C)			100% ± 5% < Load ≤ 105% ± 5% Overload warning only 105% ± 5% < Load < 125% ± 5% 10s transfer to bypass Load > 125% ± 5%, 300ms transfer to bypass									
	Transfer time			0ms (Normal mode←→ Battery mode)									
				<4ms (Normal mode←→Bypass mode)									
	Crest factor			3:1									
	DISPLAY/ INTERFACE	Noise Level		<40dB						<50dB			
		Humidity tolerance		0-95% (no condensing)									
Maximum parallel units		Up to 4 units parallel											
LCD Display		AC/ DC voltages; kVA/ kW; Frequency; Temperature; Battery & load level											
LED Status Indicator		Utility power; Battery discharge; Inverter On											
External Communication		RS232 / RJ11 / Optional Intelligent Slot											
Control		3 control push button for POWER ON / POWER OFF / FUNCTION KEY											
Communication software		Windows XP/ 2003 and later version; Linux; Unix											
Optional		SNMP Card/ USB Card/ Dry Contact AS400 Card/ CMC Card/ RS485 Card/ EMD Monitoring Device											
Battery	Charging time		< 6 hours										
	Backup time (Typical load)		>8 minutes										
	Batteries voltage		24VDC		48VDC		72VDC		192VDC	240VDC	192VDC	240VDC	
	Battery Type		Sealed maintenance-free lead acid battery										
	Battery audible alarm		Normal Sounding every 4 seconds , Low battery sounding every second										
	Battery quantity		2	None	4	None	6	None	16	None	16	None	
	Charge current		1A	6A	1A	6A	1A	6A	1A	8A	1A	8A	
L*W*H (mm)			375×144×230		510×190×452		510×190×452		670x260x740	520x260x720	670x260x740	520x260x720	
Weight (kg)			14	7	24	13	28	14	82	40	87	45	

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