

DALTON

Smart Online Single Phase UPS
Double Conversion Technology
Pure Sine Wave



U10 Series

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



- Dalton U10 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 96% ECO mode
- Full digital control system
- Maintenance Bypass Switch
- High Input Power Factor
- Optional SNMP Communication Port
- Output power factor 0.9
- Low input current value (THD<3%)
- Cold Start Function
- Automatic Battery Test
- Wide input range
- 15 Years Spare parts Support

LCD Smart Display

Dalton U10 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.



Simple Network Management Protocol (SNMP)

U10 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

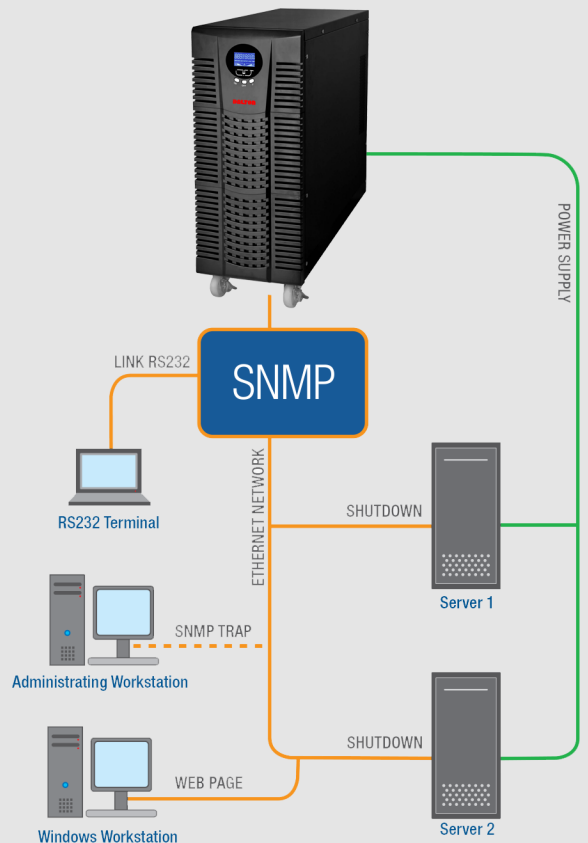
Software support most OS for remote monitor and control UPS through LAN, warning

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

- U10 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 extendible runtime using matching Battery Boxes.
- The batteries do not cut in during mains failures of



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 U10 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		U10 1K	U10 1KS	U10 2K	U10 2KS	U10 3K	U10 3KS	U10 6K	U10 6KS	U10 10K	U10 10KS	
Power Rating		1KVA/900W		2KVA/1800W		3KVA/2700W		6KVA/5.4KW		10KVA/9KW		
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	0.9										
	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 of 46Hz~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	92%					96%				
		Online mode	88%					93%				
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)	>10 minutes										
	Batteries voltage	36VDC	48VDC	72/96VDC	192/240VDC	240VDC	192/240VDC	240VDC				
	Battery Type	Sealed maintenance free lead acid / NiCd / Li battery										
	Battery audible alarm	Normal Sounding every 4 seconds , Low battery sounding every second										
	Battery quantity	3	None	4	None	6/8	None	16/20	None	16/20	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		

