

DALTON

Smart Online Single Phase UPS
Double Conversion Technology
Rack Mounted



R10 Series (1,2,3,6,10KVA)



- Dalton R10 Rack mounted UPS is aspire to introduce the latest DSP true online double conversion UPS for protecting critical loads , IT , Data centers , Servers so as to safeguard your valuable equipment and critical data from any interrupted power, such as surges, blackouts and lightning strikes.

- Rack/Tower convertible design.
- Microprocessor control optimizes reliability.
- Filtered, and stabilized sine wave supply.
- (SNMP) card Support.
- Intelligent battery management.
- Generator compatible.
- Two -year warranty For Ups & batteries.
- Eco-mode operation.
- SLC Greenery solution.
- Downloadable monitoring software for Windows, Linux and Mac.
- True double-conversion technology.
- Emergency power off function (EPO).
- Graphical Comprehensive LCD display.
- Converter mode available.
- High efficiency 94%.
- Emergency Power Off.
- Battery test, manual and automatic.
- Wide input voltage and frequency range.
- Backup extensions available for all power ratings.
- Unity power factor 1.
- High input power factor and low current THD.

Dalton R10 The front display panel provides all major systems parameters and operational status of the UPS that include full diagnostics for simple, easy servicing.

R10 LCD 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. is fully digital signaling processor (DSP) controlled to provide quality supply, reduces the number of components and hence increases reliability and improve performance.

Graphical LCD Display



Simple Network Management Protocol (SNMP)

Dalton R10 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.

Dry contact card provides isolated contacts for industrial and remote alarm application.

Inelegant 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



**AS 400N CARD
RELAY CARD**

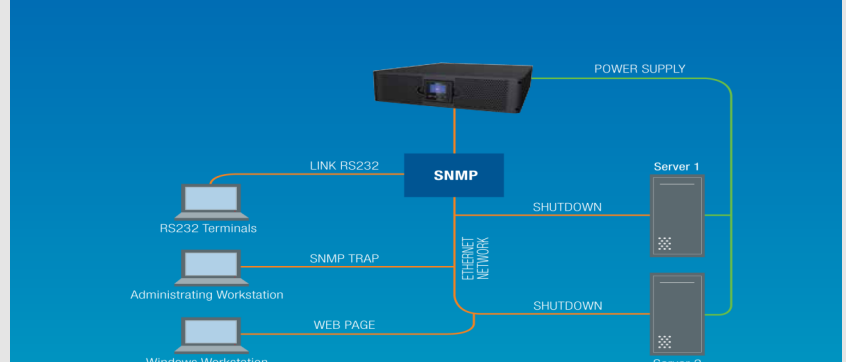


MODBUS INTERFACE



SNMP CARD

Direct connection with ethernet network



ECO mode operation for energy saving

The ECO Mode function is available on all models allowing for a cost-effective operation of the system as high as 98%. In ECO Mode, the load is supplied by the mains and when the battery is fully charged, the fan will stop running for energy saving. In the event of a mains failure, the inverter takes over the load and provides supply continuity to the connected systems.



Front & Rear Panel

- **Front panel** only has the LCD display

- **Rear panel**

1. AC Input
2. DC Input
3. Outlet
4. Breaker
5. Fan
6. Modem/Tel/Fax
7. Parallel Card (Optional)
8. RS232
9. USB
10. EPO
11. SNMPAS400 (Optional)

Intelligent battery management

Temperature-compensated charging extends life and advanced algorithms recommend replacement date.

The UPS can inform user which batteries need to be replaced and auto detect when additional battery packs are added.



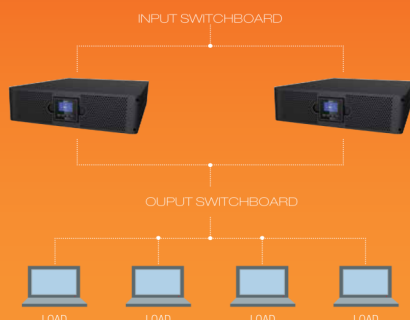
N+X Power Scalable Parallel Redundancy .

Parallel configuration

R10 UPS allows system flexibility thanks to the parallel configuration option, up to two UPS units, for 6 kVA and 10 kVA models.

Redundancy proves to be a very economical solution to achieve system growth, both in terms of supported power and autonomy.

The parallel configuration equally splits the load between the two units, providing a higher level of continuity to your application.



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Technical Specifications

Model		R101000 1K	R101000 1KS	R102000 2K	R102000 2KS	R103000 3K	R103000 3KS	R106000 6K	R106000 6KS	R1010000 10K	R1010000 10KS	
Rating Power		1KVA/1KW		2KVA/2KW		3KVA/3KW		6KVA/6KW		10KVA/10KW		
Input	Input system	Single phase & earth ground hardwire three-wire (1 PH + N + G)										
	Voltage range	(176±3)VAC~ (280±3)VAC @100% load					(176±3)VAC~ (288±3)VAC @100% load					
	Power factor	≥0.99										
	Voltage range of bypass	(130±3)VAC~ (322±3)VAC (Could be adjusted by software)					(104±3)VAC~ (331±3)VAC (Could be adjusted by software)					
Output	Output system	Single phase & earth ground hardwire three-wire (1 PH + N + G)										
	Rated voltage	200V/208V/220V/230V/240V Adjustable										
	Power factor	1										
	Voltage precision	±1%										
	Voltage distortion	≤ 3% at linear load					≤ 2% at linear load					
	Output waveform	Pure Sinewave										
	Output frequency	Normal mode	1.The output frequency synchronizes with the input frequency when the input frequency is in the range of 46Hz~ 54Hz.									
		Battery mode	2.The output frequency is 50Hz when the input frequency is not in the range of 46Hz~ 54Hz. 3.Can be set as 60Hz.									
	Efficiency	≥ 91% (Mains mode) ≥ 86% (Battery mode) ≥ 96% (ECO mode)					≥ 94% at 100% load, max. 94.5% at 60% load, ≥ 98% in ECO mode					
	Inverter overload capacity (Utility power, 25°C)	105% ± 5% < Load ≤ 125% ± 5% 50s transfer to bypass 125% ± 5% < Load < 150% ± 5% 25s transfer to bypass Load > 150% ± 5%, 300ms transfer to bypass										
	Transfer time	0ms (Normal mode←→ Battery mode)										
0ms (Normal mode←→Bypass mode)												
Crest factor	3:1											
DISPLAY/ INTERFACE	LCD Display	AC/ DC voltages; kVA/ kW; Frequency; Temperature; Battery & load level										
	LED Status Indicator	Utility power; Battery discharge; Inverter On										
	Protection degree	IP20										
	Acoustic Noise Level	55 dB @ 1 metre										
	Operating Humidity	0 - 95% RH at 0 - 40°C (non-condensing)										
	Standard Communication	EPO / USB / RS232 / RJ11 / Intelligent Slot										
	Control	3 control push button for POWER ON / POWER OFF / FUNCTION KEY										
	Communication software	Windows XP/ 2003 and later version; Linux; Unix										
	Standard	European Directives: L V 2006/95/CE low voltage Directive EMC 2004/108/CE electromagnetic compatibility Directive Standards: Safety IEC EN 62040-1; EMC IEC EN 62040-2 C2 Classification in accordance with IEC 62040-3 (Voltage Frequency Independent) VFI - SS - 111										
	Optional	SNMP Card/ Dry Contact AS400 Card/ CMC Card/ RS485 Card/ EMD Monitoring Device										
Battery	Batteries voltage	36VDC		72VDC		72VDC	96VDC	192VDC	240VDC	192VDC	240VDC	
	Battery Type	Sealed maintenance-free lead –acid battery										
	Recharge time (at nominal load)	8 Hours (90%)										
	Backup Time (25°C)	Full load ≥ 10min (Standard)										
	Battery quantity	3	None	6	None	8	None	16	None	16	None	
	Charge current	1A	6A	1A	5A	1A	5A	1A	5A	1A	5A	
W*D*H (mm)	410×338×88		438×560×88			438×560×88		482×650 ×132	482×650 ×132	482×650×132		
Weight (kg)	13	7	23	9	28	11	58	14	63	17		

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Dalton Power (UK) Ltd | Unit 3 Narberth Bridge Business Park Narberth SA67 8RF | United Kingdom
Tel: +44 (0) 190 557 0358 Fax: +44 (0) 183 445 0092 Email: info@daltonpower.co.uk
www.daltonpower.co.uk

