

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 lighting 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.
- Output power factor 0.9.
- 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**

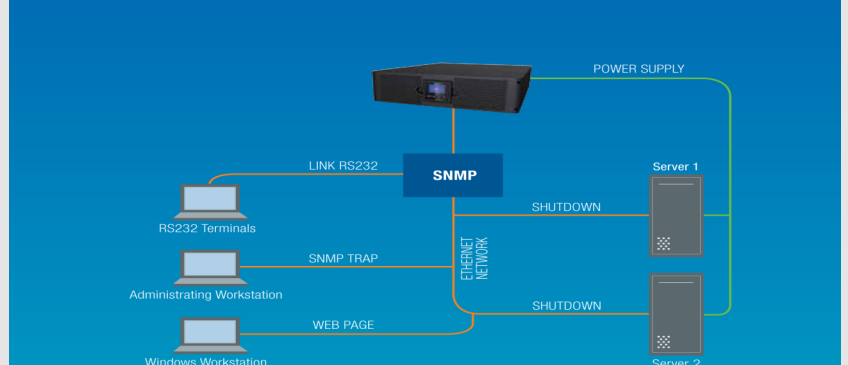


MODBUS INTERFACE



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)

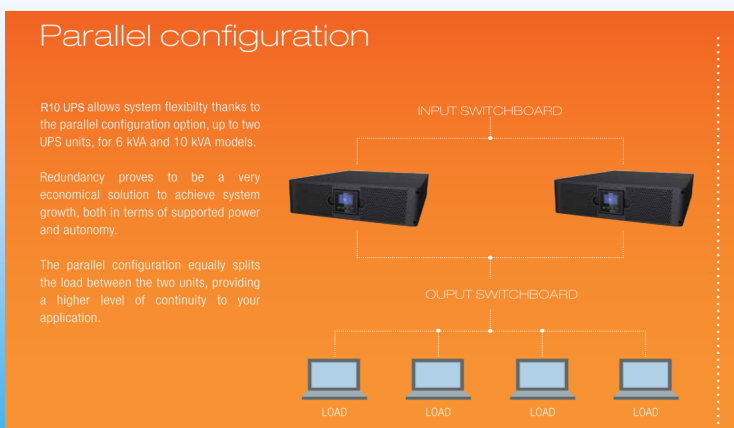
Intelligent battery management

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 .



R10 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.

Technical Specifications

Model	R10 1K	R10 1KS	R10 2K	R10 2KS	R10 3K	R10 3KS	R10 6K	R10 6KS	R10 10K	R10 10KS		
Rating Power	1KVA/900W		2KVA/1800W		3KVA/2700W		6KVA/5.4KW		10KVA/9KW			
Input	Input system Single phase & earth ground hardwire three-wire (1 PH + N + G)											
	Voltage range (90±5)VAC~ (300±5)VAC						(120±5)VAC~ (274±5)VAC					
	Power factor ≥0.99											
	Voltage range of bypass (80±5)VAC~ (286±5)VAC (default: 80VAC~264VAC Could be adjusted by software)						(60±5)VAC~ (300±5)VAC (default: 80VAC~264VAC 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 0.9											
	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%					>94%				
	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)										
		<4ms (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 40 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		96VDC		192VDC		240VDC	
	Battery Type Sealed maintenance-free lead –acid battery											
	Recharge time (at nominal load) 4 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	6.5A	1A	5.5A	1A	5.5A	1A	5.5A	1A	5.5A	
L*W*H (mm)		482×746×88		482×650×132		482×650×132		482×650×132		482×650×132		
Weight (kg)		16	10	33	10	37	10	55	20	62	21	

DALTON

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

