

DALTON

Three Phase Input Single Phase Output UPS Online Double Conversion
Smart Pure Sinewave

U31 Series

(10,15,20KVA)



- Dalton U31 for high single phase loads 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 93%
- Output Short Circuit and Overload Protection
- Maintenance Bypass Switch
- High Input Power Factor
- Charge / discharge Current Indicator

- Optional SNMP Communication Port
- Output Current Limiting
- Cold Start Function
- Automatic Battery Test
- High Charge Current Capacity
- 15 Years Spare parts Support





Graphical Display LCD

Dalton U31 The multilingual LCD display provides direct access to the main UPS functions is fully digital signaling processor (DSP) controlled to provide quality supply, reduces the number of access and hence increases reliability and improve performance.



Simple Network Management Protocol (SNMP)

Dalton U31 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

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

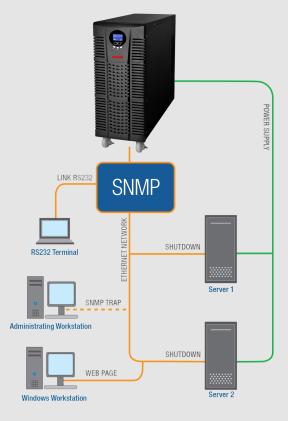
notifications through broadcast and mobile phone, multi-shutdown PCs, and schedule

UPS self-test.

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



Direct Connection with Ethernet Network







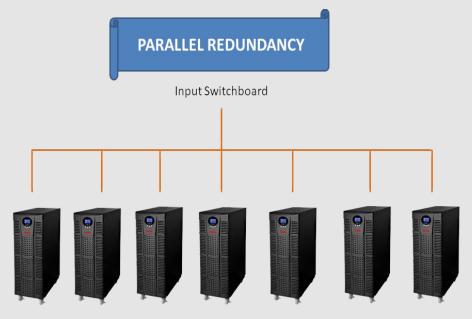
Parallel operation

U31 Parallel Redundancy feature provides economic power solution for system Integration. Furthermore, parallel redundancy feature equally share the load to maximize UPS performance, and more secure UPS continuous operation Connects as many as 8 units in parallel for capacity and redundancy to grow with your power requirements.

Provides increased backup for greater reliability and ensures continuous operation.







Parallel operation Up to 8 Units

Maintenance and Battery Management

Intelligent Maintenance is an essential activity in order to guarantee a safe and stable load protection. Dalton shows maximum care about this topic, providing the best service in terms of experience, instrumentation and safety level. Enables the UPS to transfer the load to utility power without interruption in the event of heavy overload or fault.

U31 multiple levels of service. With package or individual service component options, our services are structured for you to choose what DTM by Dalton can do for you.



FRONT&BACK VIEW OF U31plus





Technical Specifications

Model			U31 10K	U31 10KS	U31 15K	U31 15KS	U31 20K	U31 20KS
Rating Power			10KVA/8KW 15KVA/12KW 20KVA/16KW					
Input system			380-400-415Vac (3 Phases + N & earth ground)					
Input	Voltage range		274~474VAC(full load)					
	Power factor		≥0.99					
	Frequency		40~60Hz (50Hz) /50~70Hz (60Hz)					
	Inrush current		Absent					
	Output system		220-230-240Vac Adjustable (Single Phases + N & earth ground)					
Output	Rated voltage		120VAC / 274VAC					
	Power factor		0.8					
	Voltage precision		±2%					
	Voltage distortion		Linear≤3% on R 100% loading (line)					
	Output waveform Normal		Pure Sinewave (1)synchronized 46~54Hz					
	Output mode		(2)50Hz(line 40~46 or 54~60Hz)					
	frequency	Battery mode	50Hz,60Hz					
	Inverter overload capacity (Utility power, 25°C)		105% - 125% transfers to bypass mode after 1 minutes; 125% ± 5%< load ≤ 150% ± 5% transfers to bypass mode after 30second					
	Transfer time		0ms					
	Unbalanced load		100% - independent phase regulation					
	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					
	External Communication		RS232 / RJ11 / USB Card / 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/ Dry Contact AS400 Card/ CMC Card/ RS485 Card/ EMD Monitoring Device					
	Batteries voltage		240VDC					
Battery	Battery Type Backup Time (25°C)		Sealed maintenance-free lead —acid battery / Gel Battery / NiCd Full load ≥ 10min (Standard)					
	Recharge curve		Ripple free; IU (DIN 41773)					
	Battery quantity		20					
	Charge current		1.5A	7A	1.5A	10A	1.5 A	15 A
	Temperature		0°C-40°C					
	Humidity		<95%					
	Altitude		<1000m					
	Efficiency		Line: ≥ 93%					
General	Inputs		ECO/EPO					
	Noise (dB)		≤ 55dB					
	Maximum parallel units		Up to 8 units					
	Positioning		Min. 20cm rear space for fan ventilation					
	Protection		IP20					
L*W*H (mm)			560X260X717	533x260x501	717x260x740	533x260x501	717x260x740	533x260x501
	Weight (kg)			40	91	57.5	111	62.5





