

DALTON

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



B33 Series

(80 - 200 KVA)



Dalton B33 Friendly Uninterruptible Power Supply is a combination of Dalton advanced digital Signal Processor (DSP) control online double conversion technology in accordance with VFI-SS-111 classification (as set out in standard IEC EN 62040-3) and a firm pursuit of a green manufacturing philosophy. With minimum space, fewer components and controlled levels of noise pollution, the B33 Series has a significantly reduced environmental impact. Therefore, it is feasible to design a UPS with reduced carbon footprint whilst achieving clean, continuous power for industrial and computing loads.

- True double-conversion technology.
- Advanced dual-core DSP control technology.
- Software configuration and online upgrade.
- Fully protected UPS (Short circuit, Over load,...).
- High Efficiency 96%.
- Emergency power off function (EPO).
- Maintenance Bypass Switch.
- Dual Input.
- Generator compatible.
- Active power factor correction in all phases.

- Unity output power factor 1.0
- 3 Level IGBT Technology.
- Active Power Factor Correction Technology.
- Optional SNMP Communication Port.
- Parallel operation with common battery.
- Cold start function
- LCD touch screen 7" inches.
- Smart Battery Management.
- 15 Years Spare parts Support.
- ECO mode operation for energy saving (ECO).





Advanced control panel

Dalton B33 is equipped with a 7" LCD Touch screen which provides measurements, power history and alarms in multiple languages. You can also implement it by adding other languages if necessary.

The graphical user interface is designed with 3 levels of access (user and maintenance) to allow multiple users to access or modify only specific parameters. From the LCD display you can read and download all the event logs to analyze the UPS status and keep the UPS correctly. You can also a graphic personalization on demand.



(% PA UPS) P **CAPACITIVE** 100 80 60 40 cosfi 1 20 % PA 0 (% P UPS) P 20 40 60 80 INDUCTIVE 100 (% PA UPS) P

Flexibility

The B33 Series with its flexible configuration, performance, accessories and options, is suitable for use in a wide range of applications suitable for powering capacitive loads, such as blade servers, without any reduction in active power from 1 lead to 1 lag

On-line, Eco, Smart Active and Stand By Off operating modes - compatible with centralized power systems (CSS) applications. • frequency converter model configurable energy share sockets to preserve runtime for the most critical loads or to be activated only when mains power fails. • Cold Start to switch on the UPS even when there is no mains power present.

IGBT Rectifier

of the system.

B33 is equipped with an IGBT rectifier and is designed to provide an output power factor equal to 1. It supply loads for both leading and lagging without de-rating, and therefore it meets the needs of capacitive loads such as next generation server.

Low harmonic distortion of input current THDI equal to 3% provides greater reliability

Accessory dry contact programmable
This card provides six output dry contacts and



six input contacts and The dry contacts are programmable and upon request, can be customized.



RS485 ports with JBUS MODBUS protocol.

2nd slot accessory cards This slot can accommodate a relay Board or SNMP interface.

SNMP interface

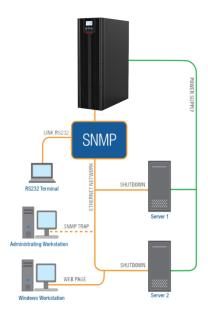
Ethernet network adapter with TCP/IP, HTTP and SNMP protocols.



and SNMP protocols.
The Simple Network
Management Protocol,
is a universal protocol
communication
standard used to

monitor any device on the network with a simple control language.

Direct Connection with Ethernet Network



Advanced communications

• Compatible with Tele NetGuard for remote monitoring. • Advanced multi-platform communications for all operating systems and network environments: PowerShield3 monitoring and shutdown software included for Windows operating systems 10, 8, 7, Hyper-V, 2016, 2012, and previous versions, Mac OS X, Linux, VMWare ESXi, Citrix XenServer and other Unix operating systems. • Double RS232 serial versions, Mac OS X, Linux, VMWare ESXi, Citrix Xen Server and other Unix operating systems.

B33 provide a SNMP which is a popular protocol for network management. It used for collecting information from, and configuring, network devices, such as servers, printers, hubs, switches, and routers on an Internet Protocol network.





High efficiency

Up to 96% efficiency in double conversion

Even small increases in UPS efficiency can quickly translate into thousands of dollars, realized in more real power and lower cooling costs. Energy Saver System (B33) enables efficiency levels of over 99% across the typical UPS operating range.

In B33, load is powered securely through static bypass line with double conversion available on-demand with typical two millisecond transition time in the event of any abnormality on supply source. When operating in B33, load is protected with inherent surge suppression.

When utility power quality is high, B33 can reduce UPS power losses by 70% as it runs on double conversion only when needed.







Digital signal processor (DSP)

Advanced dual-core DSP (Digital Signal Processor) performance enables the high sampling rates required to achieve the appropriate bandwidth for the current and voltage controls for an efficient double conversion UPS.





96% - 92% - 88% - 84% - 84% - 80% - 80% - 75% - 80% - 75% - 80% -

Fast and easy installation

• A wide range of UPS from 80 to 200 kVA with the same performance and functionality. • Free eRULER online sizing tool to get dimensions and electrical information in advance before installation. • Tutored UPS installation with eWIRE mobile app. • Quickly get online product documentation by simply inputting the Serial Number.

Easy to maintain

100%

99%

JPS Efficiency (%)

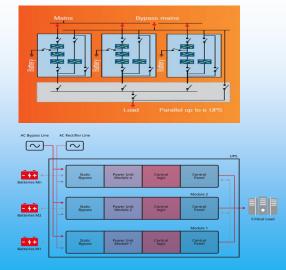
• Front and rear access for service • Quickly and easily replace the dust filter conveniently located behind the front door • Dalton service team available to make service easy and improve uptime with proper maintenance of your UPS and batteries.

Intelligent battery care system

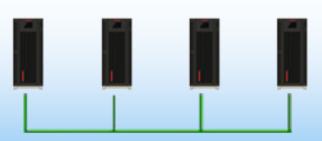
The B33 is provided with a three levels battery charger to optimize battery management and obtain the best performance and operating life.

The B33 also incorporates temperature compensated charging, which monitors temperature changes and adjusts the rate of charge accordingly, to prolong battery life.

Power management



Parallel-redundant configuration (N+1)



B33 is characterized by great flexibility that allows it to satisfy the installation requirements, even if load gets higher or a redundancy level is needed. The UPS is able to synchronize with an external source or with an external switch via Load Bus Sync. The Parallel configuration is available up to 4 units, allowing users to increase the power according to effective load requirement.





100%

Transfer time	Model			B33L80000	B33L100000	B33L120000	B33L150000	B33L160000	B33L180000	B33L2000000
Power factor Powe	Rating Power								200K 200KVA / 200KW	
C28% **126%) Full load				,					,	,
Voltage range (Vac) 228V~304Vac, load decrease linearly according to the min phase voltage										
Harmonic distortion Critical Content Charge Content Charge Content Charge Cha	=	Voltage range (Vac)								
Harmonic distortion Critical Content Charge Content Charge Content Charge Cha	ਰੂ [Power factor								
CHO	≒ _			40~70 Hz						
Rated voltage	_			< 3% at full linear load						
AC Voltage precision										
Power factor	_	_								
Harmonic distortion (THDV)	-									
CTHDU Cutput waveform	-									
Output waveform				· · · · · · · · · · · · · · · · · · ·						
Crest factor Online mode Efficiency Efficiency Type of bypass Overload capability Prequency range Long run Model (Super Charger) Rattery Eagacity Charging voltage Typical recharge time Battery sarge Charging courter Charging voltage Typical recharge time Battery sarge Charging voltage Typical recharge time Battery sarge Charging courter Batteries arrangement Charger voltage precision Cold start Parallel capability Storage temperature Operating temperature Operating temperature Protections Standards: Safety IEC EN 62040-1; EMC IEC EN 62040-2 C2 Classification in accordance with IEC 62040- Less than 68dB @1 Meter Inverter to Bypass (Oms) Sit (Imax.) Sit (I										
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Crest factor Efficiency Efficiency Efficiency Type of bypass Ourload capability Overload capability Frequency range Long run Model (Super Charger) Charging Current Charging voltage Typical recharge time Battery type Battery very Batteries arrangement Charging voltage Typical recharge time Battery type Sealed maintenance-free lead —acid battery / Gel battery / Lithium battery / Na / Nicd Cold start Parallel capability Operating temperature Operating temperature Operating temperature Operating temperature Operating temperature Protections Low battery, overload, over temperature, short circuit, Over voltage, Under voltage European Directives: L V 2006/95/CE low voltage Directive EMC 2004/108/CE electromagnetic compa Standards: Safety IEC EN 62040-2; EM CIEC EN 62040-2 C2 Classification in accordance with IEC 62040- Less than 70d8@1 Meter	ut	Transfer time		AC mode to Battery mode (0ms)						
Process				Inverter to Bypass (0ms)						
### Efficiency ### Efficiency ### Commode				3:1 (max.)						
Unbalanced load 100% - independent phase regulation		rfficion ou		96%						
Unbalanced load 100% - Independent phase regulation Type of bypass Static and Manual bypass switch		Emiciency		98.5%						
Voltage range Voltage range Up limited: +10%, +15%, +20%, +25%, Down limited: -10%, -15%, -20%, -30%, -40% Overload capability Frequency range Long run Model Charging Current Charging voltage Typical recharge time Batteries arrangement Charger voltage precision Battery type Sealed maintenance-free lead –acid battery / Gel battery / Lithium battery / Na / NiCd Parallel capability Storage temperature Operating temperature Operating temperature Alarm Protections Low battery, overload, abnormal AC input, low battery, UPS failure Protections Low battery, overload, abnormal AC input, low battery, UPS failure Less than 70dB@1 Neter Less than 70dB@1 Neter				100% - independent phase regulation						
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Long run Model Capacity Cap		Frequency range								
Cold start Sealed maintenance-free lead -acid battery / Gel battery / Lithium battery / Na / Nicd		Battery								
Charging Current 30A 40A 60 Charging voltage ±240VDC Typical recharge time 8 hours recover to 90% capacity Batteries arrangement External Charger voltage precision <1% Battery type Sealed maintenance-free lead −acid battery / Gel battery / Lithium battery / Na / NiCd Cold start Yes Parallel capability Up to 4 Units in parallel Storage temperature −25°C ~ 55°C (without batteries) Operating temperature 0°C ~ 40°C Humidity 0%~95% Non-condensing Altitude ≤1000 m, derating 1% for each additional 100 m Alarm Overload, abnormal AC input, low battery, UPS failure Protections Low battery, overload, over temperature, short circuit, Over voltage, Under voltage Standards Standards: Safety IEC EN 62040-1; EMC IEC EN 62040-2 C2 Classification in accordance with IEC 62040-1 Noise (dB) Less than 68dB @1 Meter Less than 70dB@1 Noise (the content of the content of th		capacity								
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Display indicator UPS status, Load level, Battery level, Input/output voltage, Discharge timer, and Fault condi		Noise (dB)								
		Display indicator		UPS status, Load level, Battery level, Input/output voltage, Discharge timer, and Fault conditions						
Management Smart RS-232/USB Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8, Linux and				Smart RS-232/USB Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8, Linux and MAC						
Optional SNMP Card/ Dry Contact AS400 Card/ CMC Card/ RS485 Card/ EMD Monitoring Device / Para		Optional		SNMP Card/ Dry Contact AS400 Card/ CMC Card/ RS485 Card/ EMD Monitoring Device / Parallel Kit						
Protection degree IP20		Protection degree		IP20						
Dimensions, W*D*H (mm) 450 × 941×1360 450 × 943 × 1380 533 × 945 × 141	Dimensions, W*D*H (mm)			450 × 9	450 × 941×1360 450 × 943 × 1380 533 × 945 × 1415				5	
Weight (kg) Long 160 170 180 186 216 220	Weight (kg) Long			160	170	180	186	216	220	228



