UPS Datasheet

DALE POWER SOLUTIONS

E600

3:3 10-200kVA

FEATURES

- MODULAR UPS
- ENGINEER INSTALLATION
- USB CONNECTIVITY
- HOT SWAP BATTERY

HIGHLIGHTS

- High frequency, double conversion online technology
- Ultimate Scalability and Expandability
- 19” Cabinets available in full and half height format
- Modular design capable of housing either 5 or 10 quantity power modules.
- Power modules available in 10 and 20kVA ratings.
- Configurable N+N modular redundancy
- Parallel up to 4 cabinets together.
- Wide input voltage range
- Short circuit and overload protection
- Automatic fan speed control with load variation
- Emergency Power Off facility
- Smart RS232 and USB comms with monitoring software
- Optional relay or SNMP communications card
- Large Touchscreen LCD Interface

The Dale E600 UPS range is a modular UPS system suitable for Datacenters and other high density computer and IT Critical load applications.

The E600 UPS allows your power requirements to grow along with the demands of the business without the need to oversize the UPS at day one - reducing the initial cost of investment and reducing the total cost of ownership.

As your power demands increase, the E600 can expand its power capability to maintain the highest levels of power protection and availability.

The newly-designed inverter is one of the best energy conversion systems on the market, with up to unity output power factor and 95% operating efficiency in ON LINE Mode.

HIGH PERFORMANCE

- The advanced technology within the E600 UPS systems allows for the use full rated power even with unity power factor loads (kVA=kW) without any power derating even when operating at temperatures up to 40 °C
- Low input harmonic pollution with near unity input power factor and an extremely wide input voltage operating range (208-470Vac) requiring only minimum upstream power source rating and subesquent reduced investment costs.

HIGH QUALITY OUTPUT VOLTAGE

- Even with non-linear loads (IT loads with a crest factor of up to 3:1);
- High short circuit current on bypass;
- Filtered, stabilised and reliable voltage (ON LINE double conversion technology (VFI compliant with EN62040-3) with filters for the suppression of atmospheric disturbances;
- Power factor correction: UPS input power factor close to 1 and sinusoidal current uptake.

SCALABILITY

The E600 range offers a comprehensive, easy to integrate, power protection solution for any critical IT applications, The end user can easiy increase power or redundancy levels by addiding additional power modules.

Two different cabinet sizes are available to build the system, which can accomodate either 10kVA, 20kVA, 40kVA or 50kVA Modules.

The available UPS power and redundancy can expand vertically from:

- 10 to 50kVA in one single power cabinet (E633100/20 with E63310H PM)
- 10 to 100kVA in one single power cabinet (E633200/20 with E63310H PM)
- 20 to 100kVA in one single power cabinet (E633100/20 with E63320U PM)
- 20 to 200kVA in one single power cabinet (E633200/20 with E63320U PM)

Further Expandable with up to 4 cabinets connected in parallel.

SOFTWARE
UPS MONITORING SUITE

COMMUNICATION ACCESSORIES
E-SNMP/4 - SNMP card for network monitoring of UPS
E-RELAY/2 - Volt-free card for status monitoring of UPS

MODULES	E63310H	E63320H	E63320U
OVERVIEW			
Capacity (kVA)	10kVA	20kVA	20kVA
Capacity (kW)	9kW	18kW	20kW
Power Factor	0.9	0.9	1.0
WEIGHTS AND DIMENSIONS			
Net Weight (kg)	26kg	31kg	31kg
Dimensions (H x W x D) mm		131 (3U) x 443 x 580	
Heat Loss (kW per Module)	0.78kW	0.95kW	0.94kW

MODEL	E633100/20	E633200/20
OVERVIEW		
Capacity (kVA)	20-100kVA	20-200kVA
Maximum number of Power Modules	5	10
Topology	True Online Modular UPS	
INPUT		
Number of phases	3P + N + E	
Nominal voltage	380 / 400 / 415 Vac	
Voltage Range	208 - 478 Vac	
Frequency Range	40Hz - 70Hz (Auto-Detect)	
Power Factor	>0.99	
OUTPUT		
Number of Phases	3P + N + E	
Power factor	0.9 / 1.0 module dependent	
Nominal voltage (V)	380 / 400 / 415 Vac ± 1%	
Frequency Range	50 - 60 Hz ± 0.1Hz	
THD (Linear Load)	<2%	
THD (Non-Linear Load)	<5%	
Efficiency	up to 95%	
Overload Capacity	<110% for 60 Minutes, 111-125% for 10 Minutes, 125-150% for 1 Minute >150% Switch to bypass	
Crest Factor	3:1	
Short Circuit Protection	Yes	
Waveform	Pure Sinewave	
BATTERIES		
DC Voltage	384 / 408 / 432 / 456 / 480 VDC	
Battery Quantity	32 / 34 / 36 / 38 / 40	
Charge Current	6A Per Module	
Recharge time	Depends on External Capacity	
ENVIRONMENT		
Temperature	0 °C - +40 °C	
Relative Humidity	0-95%	
Altitude	<1500m	
Storage Temperature	-25 °C - +55 °C	
Noise Level	<73dB	
COMMUNICATION		
Standard	RS232 / RS485	
SNMP Card	E-SNMP/4 (Optional)	
VFC Card	E-RELAY/2 (Optional)	
DISPLAY		
LCD Display	Yes	
LED Indication	Yes	
WEIGHTS AND DIMENSIONS		
Net Weight (kg)	152kg	290kg
Dimensions (H x W x D) mm	1400 x 600 x 840	2000 x 600 x 1100

DALE
POWER SOLUTIONS

Looking for something more bespoke?

With our own purpose-built, manufacturing facility, we're a one-stop shop for our customers providing design consultancy, manufacture and ongoing maintenance for our products.

What we do

- An end-to-end service - design, manufacture, install, commissioning and servicing
- Experts in customised UPS solutions
- In-house mechanical and electrical design capability
- Solutions for any environment, application and location
- Industry-specific solutions including WIMES specified and PADS Approved UPS
- In-house project management team to manage the development and delivery of your product for exactly when you need it.

Get in touch with our team today to discuss your requirements.

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Your power in safe hands