

## E6310

**3:1** 10-50kVA

**1:1** 10-50kVA



## FEATURES



MODULAR  
UPS



ENGINEER  
INSTALLATION

## HIGHLIGHTS

- High frequency, double conversion online technology
- Decentralized Parallel Structure
- Programmable Battery Voltage (16-20pcs)
- Touch-screen 7" color monitor supports up to 9 local languages
- Each Module with individual LCD display
- Modular N+X Parallel 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
- Megatec/Mod Bus protocol supported

**The Dale E6310 UPS range is a single phase output modular UPS system suitable for Datacenters and other high density computer and IT Critical load applications.**

The E6310 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 E6310 can expand its power capability to maintain the highest levels of power protection and availability.

### HIGH PERFORMANCE

- The advanced technology within the E6310 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 subsequent 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 E6310 range offers a comprehensive, easy to integrate, power protection solution for any critical IT applications, The end user can easily increase power or redundancy levels by adding additional power modules.

Further Expandable with up to 4 cabinets connected in parallel.

### ADVANCED COMMUNICATIONS

The E6310 is equipped with a 7" Touchscreen display providing UPS information, measurements, operating states and alarms in different languages.

The default screen displays UPS status, graphically indicating the status of the various assemblies (rectifier, batteries, inverter, bypass).

- RS232 and RS485 ports
- 2 slots for the installation of optional communications accessories such as SNMP and Volt-Free Relay Cards
- REPO Remote Emergency Power Off for switching off the UPS via a remote emergency button

### 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	E63110-RM
<b>OVERVIEW</b>	
Capacity (kVA)	10kVA
Capacity (kW)	10kW
Power Factor	1
<b>WEIGHTS AND DIMENSIONS</b>	
Net Weight (kg)	29kg
Dimensions (H x W x D) mm	131 (3U) x 443 x 580
FRAME	E63110-50
<b>OVERVIEW</b>	
Capacity (kVA)	50kVA
Capacity (kW)	50kW
Power Factor	1.0
Number of Module Slots	5
<b>WEIGHTS AND DIMENSIONS</b>	
Net Weight (kg)	156kg
Dimensions (H x W x D) mm	1400 x 600 x 840

MODEL	E63110-50K	
<b>OVERVIEW</b>		
Capacity (kVA)	10-50kVA	
Maximum number of Power Modules	5	
Topology	True Online Modular UPS	
<b>INPUT</b>		
Number of phases	1P + N + E	3P + N + E
Nominal voltage	220 / 230 / 240 Vac	380 / 400 / 415 Vac
Voltage Range	120 - 276 Vac	208 - 478 Vac
Frequency Range	40Hz - 70Hz (Auto-Detect)	
Power Factor	>0.99	
<b>OUTPUT</b>		
Number of Phases	1P + N + E	
Power factor	1.0	
Nominal voltage (V)	220 / 230 / 240 Vac $\pm$ 1%	
Frequency Range	50 - 60 Hz $\pm$ 0.2Hz	
THD (Linear Load)	<2%	
THD (Non-Linear Load)	<5%	
Efficiency	up to 94%	
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	
<b>BATTERIES</b>		
DC Voltage	$\pm$ 96 / 108 / 120 VDC	
Battery Quantity	16 / 18 / 20 pcs 20 pcs - output power factor = 1; 18 pcs - output power factor = 0.9; 16 pcs - output power factor = 0.8	
Charge Current	20A Max Per Module (Configutable)	
Recharge time	Depends on External Capacity	
<b>ENVIRONMENT</b>		
Temperature	0 °C - +40 °C	
Relative Humidity	0-95%	
Altitude	<1500m	
Storage Temperature	-25 °C - +55 °C	
Noise Level	<60dB (at 1m)	
<b>COMMUNICATION</b>		
Standard	RS232 / RS485	
SNMP Card	E-SNMP/4 (Optional)	
VFC Card	E-RELAY/2 (Optional)	
<b>DISPLAY</b>		
LCD Display	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage, Internal Temperat	
LED Indication	Line Mode, Eco Mode, Bypass Mode, Battery Low, Battery Bad, Overload, UPS Fault	
<b>STANDARDS</b>		
Safety	IEC/EN62040-1,IEC/EN60950-1	
EMC	IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4,IEC61000-4-5,IEC61000-4-6,IEC61000-4-8	



# 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.

[hello@dalepowersolutions.com](mailto:hello@dalepowersolutions.com)

0330 999 3000

[dalepowersolutions.com](http://dalepowersolutions.com)

# Your power in safe hands