

### Features

- High frequency double conversion on-line technology
- Fully digitalised microprocessor control
- Parallel capacity or redundancy (maximum 4 units)
- Wide input voltage range
- Intelligent battery charge management
- Automatic battery charge in UPS off mode
- RS232 communication with monitoring software
- Short circuit and overload protection
- Lightning and surge protection
- EMI and RFI noise filtering
- Line interactive ECO mode
- User friendly LCD interface
- Cold start function
- Fan speed auto control with load variation
- Built-in maintenance bypass switch
- Configurable external battery options
- Emergency Power Off function
- Relay alarm card fitted as standard
- Optional SNMP network card available



### Common Specifications

<b>Input</b>	Voltage range	184V AC to 276V AC Line-Neutral
	Phase	3 Phase 4 Wire & Earth
	Frequency	45 to 70Hz
	Power Factor	> 0.99
<b>Output</b>	Voltage	220/230/240V AC Line-Neutral (user adjustable)
	Phase	3 Phase 4 Wire & Earth
	Frequency	50 / 60Hz (user adjustable)
	THD (Linear Load)	< 1%
	THD (Non-Linear Load)	< 5%
	Waveform	Sine wave
	Overload Capability	110%: 60 mins, 125%: 10 mins, 150%: 1 min
	Crest Factor	3:1 (max)
	Power Factor	0.8
	Short Circuit Protection	Yes
Transfer Time	0ms	
Efficiency	On-line mode: >90% Battery mode: >93% ECO mode: >97%	
<b>Battery</b>	External	Configurable 32/34/36/38/40x 12V mono blocks (384V / 408V / 432V / 456V / 480V DC Nominal)
<b>Environment</b>	Altitude	1000m at rated power (de-rate output by 1% per 100m above 1000m) max 4000m
	Operate Temperature	0°C to 40°C
	Storage Temperature	-25°C to +55°C
	Relative Humidity	95%
<b>Communication</b>		Standard: RS232 Optional: SNMP
<b>LCD Screen Display</b>		Measurements: Input/output voltage/freq, battery voltage, load power and kVA, UPS temperature Operation mode: On-line, Battery, Bypass
<b>Operation mode</b>		Double conversion on-line or ECO line interactive (user selectable)
<b>LED Indication</b>		Mimic panel overview of UPS operation and alarms
<b>Noise Level</b>		<56dBA
<b>Safety &amp; EMC</b>		CE marked to 2006/95/EC & 2004/108/EC Tested to EN62040-1-1 & EN62040-2
<b>Standard Accessories</b>		Control software, data lead & user manual

### Model Specifications

Model Number	Output (kVA)	Ratings (kW)	Full Load Efficiency	Battery DC Voltage	Audible Noise (dBA)	Physical	
						Weight (kg) Net/Gross	Dims (mm) (H x W x D)
E420	20	16	92%	384—480V	< 56	186 / 226	1200 x 600 x 730
E430	30	24	92%	384—480V	< 56	192 / 232	1200 x 600 x 730
E440	40	32	92%	384—480V	< 56	203 / 243	1200 x 600 x 730
E460	60	48	93%	384—480V	< 56	280 / 328	1800 x 600 x 730
E480	80	64	93%	384—480V	< 56	289 / 357	1800 x 600 x 730

Dale Power Solutions Ltd reserves the right to make changes in specification without notice or liability. All information is subject to Dale Power Solutions own data & is considered accurate at time of publishing.

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