

Features:

- High frequency, double conversion online technology
- Fully digitised DSP control
- Wide input voltage range
- Cold start and programmable auto re-start functions
- Advanced battery management
- Selectable ECO mode for high efficiency operation
- Automatic battery charge in UPS off mode
- Lightning and surge protection
- 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
- Matching EE2000+ battery pack available
- Up to 4 units can be operated in parallel
- E suffix models have no internal battery and increased charging capacity



Specifications

UPS Model		E2310+	E2310E+	E2315E+	E2320E+
Capacity		10kVA/9kW	10kVA/9kW	15kVA/13.5kW	20kVA/18kW
Topology		True Online			
Input	Nominal Voltage	380/400/415V AC			
	Voltage Range	208-478VAC			
	Phase	Three Phase			
	Frequency	40-65Hz			
	Power Factor	>0.99			
Output	Voltage	220/230/240VAC ±1%			
	Phase	Single Phase			
	Power Factor	0.9pf			
	Frequency Range	50-60Hz ±0.1Hz			
	THD (Linear Load)	<2%			
	THD (Non-Linear Load)	<5%			
	Efficiency	>94%			
	Overload Capability	105% to 110%, 1 h, 110% to 125%, 10 min, 125% to 150%, 1 min, >150%, switch to bypass			
	Crest Factor	3:1			
	Short Circuit Protection	Yes			
	Waveform	Sine Wave			
	Transfer Time	0ms			
Connections	Hardwired				
Parallel	Parallel Capable	Yes			
	Max. Parallel Units	4			
Battery	Battery Model	S12-9U	Variable	Variable	Variable
	DC Voltage	192	192/216/240VDC		
	Battery Type & Qty	16x 12V / 9Ah	16/18/20 12V Blocks		
	Backup At Half Load	6min	Variable		
	Backup At Full Load	2min	Variable		
	Charge Current	1A	10A	10A	10A
	Recharge Time	90% capacity after 8 hours			
	Battery Pack	N/A	EE2000+	External	External
Max. Battery Pack Qty	5	N/A	N/A	N/A	

Specifications					
UPS Model		E2310+	E2310E+	E2315E+	E2320E+
Environment	Operating Temperature	0-40°C			
	Relative Humidity	0-90%			
	Altitude	<1500m			
	Storage Temperature	- 25°C - +55°C			
	Noise Level	<55dB	<55dB	<55dB	<55dB
	Heat Loss	0.63kW	0.63kW	0.79kW	1.05kW
Communication	Standard	Standard RS232/USB			
	SNMP	E-SNMP/2 (Optional)			
	VFC	E-RELAY/2 (Optional)			
Display	LCD Display	Yes			
	LED Indication	Yes			
Safety and EMC		IEC62040-1; IEC62040-2; CE			
Weights & Dims	Net Weight	76kg	35kg	45kg	45kg
	Dimensions (H x W x D)	655 x 250 x 597 mm	616 x 250 x 502 mm	616 x 250 x 502 mm	616 x 250 x 502 mm
Standard Accessories	User Manual	Software/IO Leads/Data Leads/ O&M Manual			
	Control Software	With SNMP Card			
	Data Leads	RS232 & USB	RS232 & USB	RS232 & USB	RS232 & USB

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