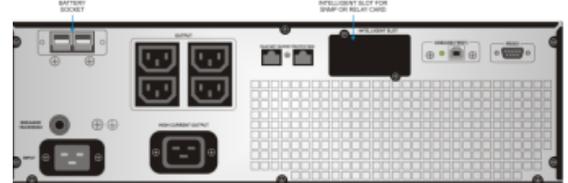
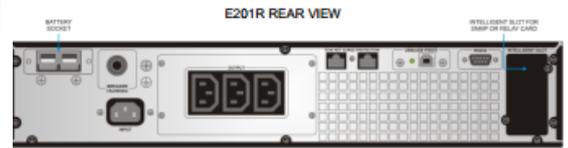


Features

- High frequency, double conversion on-line technology
- Rotatable LCD—suitable for 19" rack or slim tower
- Fully digital DSP control
- Wide input voltage range
- Cold start function
- 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 communications with monitoring software
- USB communications port included
- Optional relay or SNMP communications card
- Matching EER+ battery packs available
- E suffix models have no internal battery and increased charging capability



Specifications

UPS Model		E201R(E)	E202R(E)	E203R(E)
Capacity		1000VA/800W	2000VA/1600W	3000VA/2400W
Input	Voltage range	115V AC - 295V AC, load < 7		160V AC - 295V AC, load > 70%
	Phase	Single phase		
	Frequency	46 - 54Hz ±0.5Hz or 56 - 64Hz ±0.5Hz (auto sensing)		
	Power Factor	0.98		
Output	Voltage	220/230/240V AC ±2% (factory set)		
	Phase	Single phase		
	Frequency Range	50 / 60Hz ±0.2% (auto selected at start up)		
	THD (Linear Load)	< 3%		
	THD (Non-Linear Load)	< 6%		
	Overload Capability	>110% for 30 sec then transfer to bypass	>150% for 0.3 sec then transfer to bypass	
	Crest Factor	3:1 (max)		
	Power Factor	0.8		
	Short Circuit Protection	On-line mode: Inverter turns off after 5 cycles, inhibits transfer to the bypass & provides an alarm Battery mode: Inverter turns off after 5 cycles & provides an alarm Bypass mode: AC input fuse blows or circuit breaker operates		
	Waveform	Sine wave		
	Transfer Time	0ms (between on-line mode & battery mode)		
Efficiency	On-line mode: >87%		On-line mode: >88%	
Battery	Model	12V valve regulated lead acid maintenance free		
	DC Voltage	24V DC	48V DC	72V DC
	Battery	2x 12V / 9Ah	4x 12V / 9Ah	6x 12V / 9Ah
	Backup Time At Half Load	10 mins	10 mins	10 mins
	Backup Time At Full Load	4 mins	4 mins	4 mins
	Charge Current	Internal Battery: 1A External Battery: 4A (E suffix)		
Recharge Time	90% capacity after 8 hours charging			
Environment	Temperature	0°C to +40°C		
	Relative Humidity	0 - 95% (non-condensing)		
	Altitude	1500m maximum		
	Storage Temperature	-25°C to +55°C		
Communication	Standard: RS232, USB Optional: SNMP or Relay Card			
LCD Display	Measurements: Input/output voltage/freq, battery voltage, load power and kVA, UPS temperature Operation mode: On-line, Battery, Bypass			
LED Indication	Green LED: Normal operation Yellow LED: Warning condition Red LED: Abnormal operation			
Noise level	< 45dBA			
Safety & EMC	CE marked to 2006/95/EC & 2004/108/EC Tested to EN62040-1-1:2003 & EN62040-2:2006			
Weight & Dimensions	Standard Unit Weight	12.0kg / E suffix 7kg	21.1kg / E suffix 11.5kg	26kg / E suffix 14.5kg
	Dimensions (H x W x D)	400 x 380 x 86.5 mm 440 x 520 x 131 mm		
Standard Accessories	Control Software	Yes	Yes	Yes
	Input & Output Leads	Yes	Yes	Yes
	Data Lead	Yes	Yes	Yes
	User Manuals	Yes	Yes	Yes

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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