

E200U

1:1 1-3kVA



FEATURES



TOWER UPS



PLUG & PLAY
INSTALLATION



HOT SWAPPABLE
BATTERY



USB
CONNECTIVITY



CONFIGURABLE
OUTLETS

HIGHLIGHTS

- 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

The Dale E200U UPS range is the the new range of high density double conversion On line UPS suitable for powering a wide range of devices such as servers, storage systems, VoIP telephony equipment, network and medical systems as well as industrial applications.

The E200U range uses Double Online Conversion technology, resulting in the highest levels of reliability and the protection for your critical systems.

The newly-designed inverter offers a unity output power factor and up to 92% operating efficiency in ON LINE Mode.

For business continuity applications requiring long battery runtimes, battery autonomy can be extended up to several hours using up to 4 matching battery expansion packs.

SIMPLIFIED INSTALLATION

- Low noise (<50 dBA): the E200U can be installed in any environment thanks to its high frequency switching inverter and load-dependent digitally controlled fan;
- Operation guaranteed up to 40 °C (the components are designed for high temperatures and are thus subject to less stress at normal temperatures);

LOW NOISE LEVEL

Thanks to the use of high frequency components and load-based fan speed control, the noise produced by the UPS is less than 50 dB.

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.

HIGH BATTERY RELIABILITY

- Automatic and manual battery test;
- Extendible runtime using matching battery cabinets. (maximum 4 cabinets)

FLEXIBLE CONFIGURATION

The UPS is highly flexible and easy to configure. Programmable functions can be set via software or manually via the front display panel. E200U can be configured in the following operating modes:

- On Line: maximum load protection and output voltage waveform quality;
- ECO Mode: to increase efficiency (up to to 98%); allows you to select LINE INTERACTIVE technology;
- The output sockets can be programmed to disconnect less critical loads during blackouts (Configurable outlet function).

IMPROVED LCD DISPLAY

The front display panel has the ability to show many parameters of the UPS operating status such as:

- Operating Status including any Alarms or Fault Codes
- AC Input Voltage and frequency
- Battery Voltage
- Temperature
- AC Output Voltage and frequency
- Load percentage, Load in VA, Load in Watts, Discharge Current

SOFTWARE

UPS MONITORING SUITE

COMMUNICATION ACCESSORIES

E-SNMP/1-MINI - SNMP card for network monitoring of UPS

E-RELAY/1-MINI - Volt-free card for status monitoring of UPS

INSTALLATION ACCESSORIES

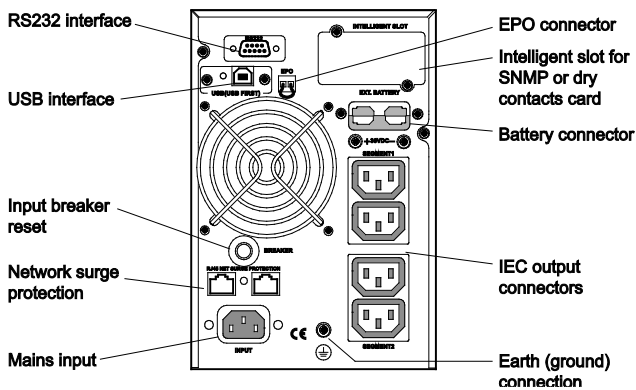
EMBS10/11/PP - Wall Mount EMBS for 1kVA UPS

EMBS16/11/PP - Wall Mount EMBS for 3kVA UPS

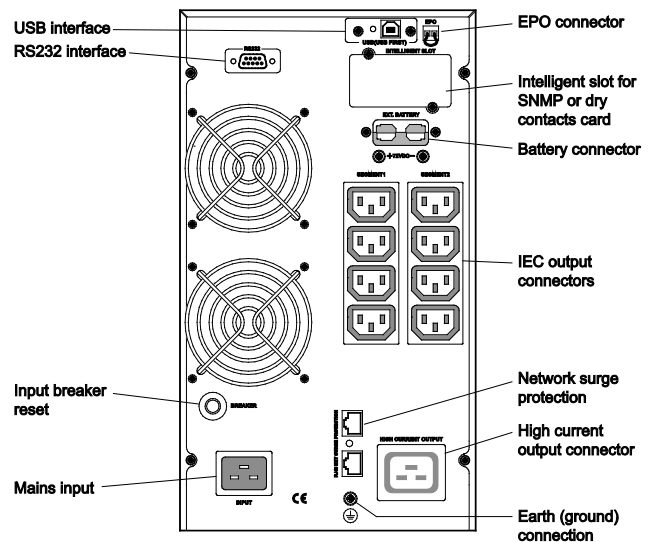
MODEL	E201U	E203U
OVERVIEW		
Active power (kVA)	1kVA	3kVA
Active power (kW)	1kW	3kW
Topology	True Online Tower UPS	
INPUT		
Number of phases	1P + N + E	
Connection Type	IEC-C14 x 1	IEC-C20 x 1
Nominal voltage	200 / 208 / 220 / 230 / 240 Vac	
Voltage Range	160 - 300 Vac	
Frequency Range	40Hz - 70Hz (Auto-Detect)	
Power Factor	>0.99	
OUTPUT		
Number of Phases	1P + N + E	
Connection Type	IEC-C13 x 4	IEC-C13 x 8; IEC-C19 x 1
Power factor	1.0pf	
Nominal voltage (V)	200 / 208 / 220 / 230 / 240Vac ± 1%	
Frequency Range	50 - 60 Hz ± 0.1Hz	
THD (Linear Load)	<3%	
THD (Non-Linear Load)	<6%	
Efficiency	up to 89%	up to 92%
Overload Capacity	105-110% for 10 Minutes, 111-130% for 1 Minute, >130% for 3 Seconds	
Crest Factor	3:1	
Short Circuit Protection	Yes	
Waveform	Pure Sinewave	
Transfer Time	0mS	
BATTERIES		
Battery Type	10 Year VRLA	
DC Voltage	36VDC	72VDC
Battery Quantity	3 x 12V / 7Ah	6 x 12V / 7Ah
Backup Time @ Half Load	17 Minutes	11 Minutes
Backup Time @ Full Load	7 Minutes	5 Minutes
Charge Current	1A	
Recharge time	90% Capacity after 5 hours	
EXTERNAL BATTERY PACKS		
Battery Pack Model	EE201U	EE203U
Maximum Number of External Packs	4 Packs	
ENVIRONMENT		
Temperature	0 °C - +40 °C	
Relative Humidity	0-90%	
Altitude	<1500m	
Storage Temperature	-25 °C - +55 °C	
Noise Level	<50dB	
Heat Loss	0.14kW	0.26kW

MODEL	E201U	E203U
DISPLAY		
LCD Measurements	Voltage / Frequency / Battery level / Backup Time / Output Load Watts & VA / Temperature	
LED Indicators	Alarm / Bypass Mode / Battery Mode / Inverter Mode	
Alarm (Audible / Visual)	Audible or Visual; Line Failure / Battery Low / Overload / System Fault	
COMMUNICATIONS		
Standard	Standard RS232 / USB	
SNMP Card	E-SNMP/1-MINI (Optional)	
Alarm Card	E-RELAY/1-MINI (Optional)	
WEIGHTS & DIMENSIONS		
Weight (kg)	15kg	32kg
Dimensions (H x W x D)	215 x 144 x 400mm	337 x 191 x 468mm
STANDARD ACCESSORIES		
Manuals	User Manual	
Software	Only with SNMP Card	
Input Cables	3 Pin UK Plug	
Output Cables	IEC-C13 x 3	
Data Cables	RS232 & USB	
OTHER		
Standard Warranty Period	3 Years for Electronics / 1 Year for Batteries	
Recommended EMBS	EMBS10/11/PP	EMBS16/11/PP

CONNECTIONS



E201U



E203U

EE200U Series Battery Pack 1-3kVA

MODEL	EE201U	EE203U
Compatible UPS Model	E201U	E203U
BATTERY		
Battery Type	12V Valve Regulated Lead Acid (VRLA) maintenance free	
Battery Life	10 Year design life at 20°C	
Battery Capacity	7Ah	
Maximum number of packs	4	
Number of battery strings per pack	2	
Nominal voltage	36V	72V
Battery Charger		
AC Supply limits	208-256V	
Protection	Circuit breaker	
DC charge voltage	41.25V	82.5V
DC charge current	2A	
recharge time	8 hours to 90% capacity	
charger output protection	Fuse	
Environment		
Operating temperature	0 °C - +40 °C	
Relative humidity	0-90% (non-condensing)	
Altitude	1500m maximum	
Storage temperature	0 °C - +40 °C	
WEIGHTS & DIMENSIONS		
Weight (kG)	21.2kg	44.2kg
Dimensions (H x W x D)	215 x 144 x 409mm	337 x 199 x 466mm

Pack(QTY)	Autonomy Full Load (Minutes)				Autonomy Half Load (Minutes)			
	1	2	3	4	1	2	3	4
UPS								
E201U	28	51	76	102	63	115	171	230
E203U	18	33	50	67	41	75	112	151



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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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