

## E700B

3:3 10-40kVA



### FEATURES



TOWER UPS



ENGINEER  
INSTALLATION



USB  
CONNECTIVITY

### HIGHLIGHTS

- Three level inverter topology, the efficiency >95%.
- Wide input voltage range 184-276Vac Phase to Neutral
- Fully digitised DSP control
- Flexible battery configuration supporting 32-40 blocks per string
- Cold start and programmable auto re-start functions
- Up to 4 units can operate in parallel
- Smart RS232 and USB comms with monitoring software
- Automatic battery charge in UPS off mode
- In Built battery system supporting runtimes of up to 1 hour at full load dependent on model.
- Automatic fan speed control with load variation

The E700B series is ideal for protecting data centres and telecommunications systems, IT networks and critical systems in general, where the risks connected with poor energy supply can compromise the continuity of activities and services. The E700B series is available in 10-15-20-30-40 kVA models with three-phase input and output and on-line double conversion technology in accordance with VFI-SS-111 classification (as set out in standard IEC EN 62040-3).

The E700B is designed and built using state-of-the-art technology and components. It has a fully controlled IGBT rectifier to minimize the impact on the grid. It is controlled by a DSP (Digital Signal Processor) microprocessor, to provide maximum protection to the powered loads with no impact on downstream systems, and optimised energy savings.

#### **ZERO IMPACT SOURCE**

The E700B solves installation problems in systems where the power supply has limited power available, where the UPS is supported by a generator or where there are compatibility problems with loads that generate harmonic currents; the E700B has a zero impact on its power source, whether this is the mains power supply or a generator:

- input current distortion < 5%
- input power factor  $\geq 0.99$
- power walk-in function that ensures progressive rectifier start up.

In addition, the E700B plays a filtering and power factor correction role in the power network upstream of the UPS, as it eliminates harmonic components and reactive power generated by the power utilities.

#### **MAXIMUM RELIABILITY AND AVAILABILITY**

Distributed parallel configuration of up to 4 units per redundant (N+1) or power parallel system. The UPS system will continue to operate in parallel even if one of the connection cables is interrupted (Closed Loop).

#### **FLEXIBILITY**

With its flexible configuration, performance, accessories and options, The E700B series is suitable for use in a wide range of applications:

- Suitable for powering capacitive loads, such as blade servers, without any reduction in active power from 0.9 lead to 0.9 lag
- Frequency converter mode
- Cold Start to switch on the UPS even when there is no mains power present
- High power battery chargers to optimise charge time in the event of long runtimes

#### **ADVANCED COMMUNICATIONS**

The E700B is equipped with LCD and LED 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
- Input for the connection of the auxiliary contact of an external manual bypass

#### **BUILT-IN BATTERY BACKUP**

With the built in battery system, The E700B can provide up to 60 minutes backup time at full load on a 10kVA UPS system.



MODEL
OVERVIEW
Active power (kVA)
Active power (kW)
INPUT
Nominal Voltage
Operating voltage range
Operating frequency range
Power Factor
OUTPUT
Output voltage
Power Factor
Output Frequency
Crest Factor
Harmonic Distortion (THD)
Efficiency
BATTERY
Battery Model
DC Voltage
Battery Quantity
Backup At Half Load
Backup At Full Load
Charge Current
Recharge Time
SYSTEM FEATURES
Transfer time
Overload
Alarm
Protections
Communications
ENVIRONMENT
Operating temperature
Relative Humidity
Altitude
Noise Level
Heat Loss
PHYSICAL
Net Weight
Dimensions (H x W x D)
SAFETY & EMC
Standards

E73310B	E73315B	E73320B	E73330B	E73340B
10kVA	15kVA	20kVA	30kVA	40kVA
9kW	13.5kW	18kW	27kW	36kW
380 / 400 / 415Vac (3Ph + N + PE)				
184-276VAC				
40-70Hz				
>0.99				
380 / 400 / 415Vac (3Ph + N + PE)				
0.9pf				
50-60Hz User Adjustable				
3:1				
≤2% with Linear load, ≤5% with Non-Linear load				
>95%				
12V 38Ah				
384/408/432/456/480VDC (Internal Battery 432VDC)				
32/34/36/38/40 12V Blocks (Internal Battery 36x 12V Blocks)				
150 Minutes	90 Minutes	60 Minutes	35 Minutes	25 Minutes
60 Minutes	35 Minutes	25 Minutes	12 Minutes	8 Minutes
6A		10A		
Variable based on Internal or External battery Capacity				
0ms				
<110% 60min/<125% 10min/150% 1min/>150% Immediate Shutdown				
Overload, Mains Abnormal, UPS Fault, Battery Low etc.				
Short Circuit, Overload, Overtemperature, Battery Low				
Standard RS485/RS232/Parallel Port / E-SNMP/4 (Internal) (Optional) / E-RELAY/4 (Optional)				
0-40°C				
0-95%				
<1500m				
<60dB				
0.42kW	0.64kW	0.85kW	1.27kW	1.70kW
591kg	594kg	595kg	595kg	626kg
1200 x 600 x 780 mm				
EN62040-1-1; EN62040-2; IEC60950; CE				



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POWER SOLUTIONS

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## What we do

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- 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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# Your power in safe hands