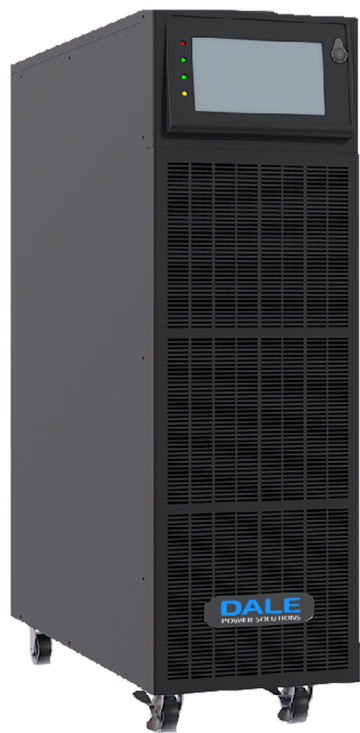


HE700UE

3:1 10-20kVA

1:1 10-20kVA



FEATURES



TOWER UPS



ENGINEER
INSTALLATION



USB
CONNECTIVITY



HIGH EFFICIENCY

HIGHLIGHTS

- Supports 3/1 and 1/1 operation.
- Wide input voltage range 208-478Vac
- Unity output power factor meaning the UPS can supply power to 100% unbalanced load.
- Flexible battery configuration supporting 16/18/20 blocks per string with 32-40 blocks optional
- Maximum charging current up to 18A (configurable)
- Up to 4 units can operate in parallel with support for common battery arrangement.
- 7 Inch Touchscreen LCD Display
- Multiple communication interface: RS232/RS485/USB/EPO/ Dry contact port (Relay card/SNMP card/Parallel cable/ Battery temperature sensor optional)

The HE731 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 HE700U-E series is available in 10-15-20kVA models. Its configurable design allows for operation in either three-phase input and single-phase output or single-phase input and single-phase output. The UPS utilises on-line double conversion technology in accordance with VFI-SS-111 classification (as set out in standard IEC EN 62040-3).

The HE700U-E 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 HE700U-E 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 HE700U-E has a zero impact on its power source, whether this is the mains power supply or a generator:

- input current distortion < 3%
- input power factor ≥ 0.99
- power walk-in function that ensures progressive rectifier start up.

In addition, the HE700U-E 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 HE700U-E series is suitable for use in a wide range of applications:

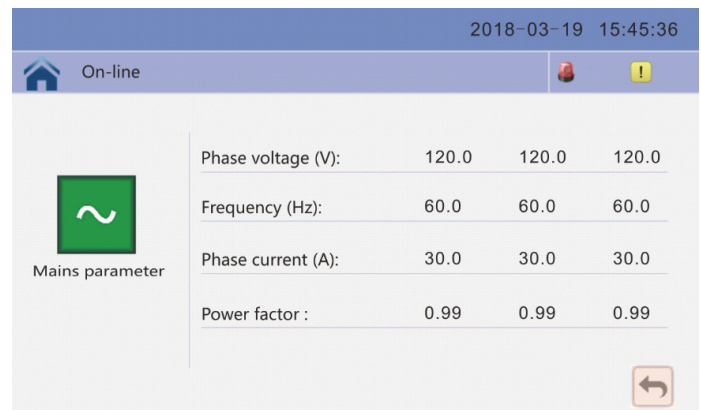
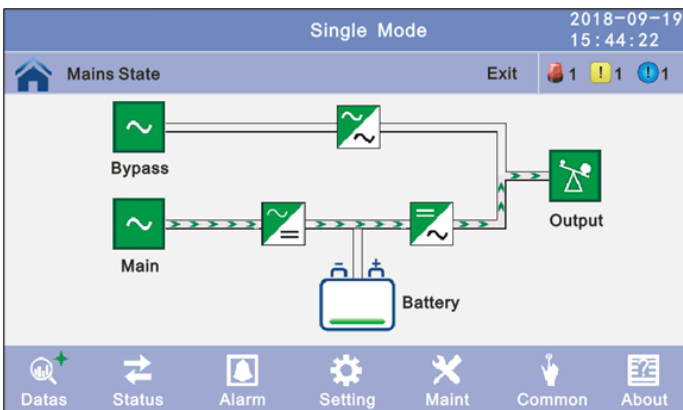
- Suitable for powering capacitive loads, such as blade servers, without any reduction in active power from 0.9 lead to 0.9 lag
- On-line, Eco, Smart Active and Stand By Off operating modes - compatible with centralised power systems (CSS) applications.
- Frequency converter mode
- Cold Start to switch 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
- Optional Dual input mains power supply

ADVANCED COMMUNICATIONS

The HE700U-E is equipped with a 7" Touchscreen display 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, RS485 and USB ports
- Intelligent slot 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
- Input for synchronisation from an external source



MODEL	HE73110U	HE73115U	HE73120U	HE73110UE	HE73115UE	HE73120UE
OVERVIEW						
Active power (kVA)	10	15	20	10	15	20
Active power (kW)	10	15	20	10	15	20
INPUT						
Nominal Voltage	380 / 400 / 415Vac (3Ph + N + PE) 220 / 230 / 240Vac (Ph + N + PE)					
Operating voltage range	208 - 478VAC 120 - 276VAC					
Operating frequency range	40Hz - 70Hz					
Power Factor	≥0.99					
Harmonic Distortion (THD)	≤3% (100% non-linear load)					
Bypass Voltage Range	121 - 275Vac					
Generator Input	Supported					
OUTPUT						
Output voltage	220 / 230 / 240Vac (Ph + N + PE)					
Voltage regulation	±1%					
Power Factor	1.0 (Unity)					
Output Frequency	Synchronised with Input in normal operation, 50Hz / 60Hz selectable on battery mode					
Crest Factor	3:1					
Harmonic Distortion (THD)	≤2% with Linear load, ≤5% with Non-Linear load					
Efficiency	up to 94.5%					
BATTERY						
DC Voltage	±120V		Standard - ±96V / ±108V / ±120V Optional - ±192V / ±204V / ±216V / ±228V / ±240V			
Battery Quantity	20 x 7/9Ah		Standard - 16 / 18 / 20 Selectable Optional - 32 / 34 / 36 / 38 / 40			
Charge Current	Max. 14A	Max. 16A	Max. 18A	Max. 14A	Max. 16A	Max. 18A
SYSTEM FEATURES						
Transfer time	UPS to Battery - 0ms ; UPS to Bypass - 0ms					
Overload	Inverter Mode: Load≤110%: last 60min change to bypass, ≤125%: last10min, change to bypass, ≤150%: last 1min change to bypass, >150% change to bypass immediately Battery Mode: Load≤110%: last 10min, ≤125%: last 1min, ≤150%: last 5 seconds, >150% shut down UPS immediately					
Alarm	Overload, Mains Abnormal, UPS Fault, Battery Low etc.					
Backfeed	Supported					
Protections	Short Circuit, Overload, Overtemperature, Battery Low, Fan Fault					
Communications	USB, RS232, RS485, Parallel Port, REPO Port, Backfeed Port, Intelligent Slot, SNMP card (Optional) Relay card (Optional)					
ENVIRONMENT						
Operating temperature	0°C - 40°C					
Relative Humidity	0-95% (Non Condensing)					
Altitude	<1500m					
Storage Temperature	-25°C - 55°C (No battery)					
PHYSICAL						
Dimensions WxHxD (mm)	250x868x900					
Net weight (kg)	125	180	181	33	37	38
STANDARDS						
Safety	IEC/EN62040-1, IEC/EN62477-1					
EMC	IEC/EN62040-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8 IEC61000-4-11, IEC61000-2-2					



DALE

POWER SOLUTIONS

Looking for something more bespoke?

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.

hello@dalepowersolutions.com

0330 999 3000

dalepowersolutions.com

Your power in safe hands