

TECHNICAL DATA SHEET

HAC415 - 1000 3 PHASE AC LOAD BANKS

Features

- SIMPLE OPERATION
- TWIST LOCK CABLE CONNECTORS
- ISOLATION CONTACTORS
- FAN FAIL PROTECTION
- HIGH POWER
- NO AUX MAINS REQUIRED
- FUSE PROTECTION
- INTELLIGENT HAND HELD CONTROLLER
- PARALLEL OPERATION
- ROAD TRAILER OPTION WITH LOCKABLE CABLE STORAGE
- PC DATA LOGGING



HAC415-1000 illustrated on optional road trailer

The Hillstone HAC series load banks provide a reliable solution to on-site AC testing of UPS systems and generators. Units incorporate remote hand held controllers giving 1KW switch step selection of force cooled high powered resistor elements, panel mounted digital meter to monitor the performance of the generator, plus safety features including twist lock safety cable connectors, HRC fuse protection, fan failure shut down and emergency stop push button. Road trailers and PC interface with data logging facilities are also available as optional extras.

Performance table

LOAD BANK type ref.	Max volts	Power at 415V	Amps at 415V	Power at 400V	Amps at 400V	Power at 380V	Amps at 380V
HAC415-1000	415V	1000KW	1340A	886KW	1284A	810KW	1228A

Specification

Max voltage	415 volts, three phase, 4 wire with neutral (for delta see note 4)		
Frequency	50 hz (60 hz option see note 4)		
Rating	see above table		
Adjustment	from 1KW to max power, selected via Hillstone iHHC hand held controller (see over leaf)		
Controls	Control / fan control, emergency stop plus hand held controller		
Cable termination	Panel mounted, non interchangeable, fast connection, twist lock safety connectors for external cables to L1, L2, L3, N & earth. (matching cable connectors available as optional extras)		
Cooling	3 phase, 50 Hz, force air cooling fan, powered from the test source, horizontal air flow.		
Cables	External power cables and matching twist lock cable connectors, available as optional extras		
Element type	10 mm Incoly, stainless steel finned sheathed resistor elements (see note 4)		
Environmental Protection	Designed for outdoor operation, electrical control chamber IP54, element chamber IP21 (see note 3)		
Construction	Robust floor mounted Zintec steel frames and panels with optional lifting base frame plus folk lifting points. Horizontal air flow comprises of three module assembly for greater flexibility of location.		
Meter	Digital power meter, displaying line volts, phase volts, line current, power and frequency		
Operating temperature	0-50 deg C		
Storage temperature	0-80 deg C		
Case size & weight	2500 mm long x 1800 mm deep x 1000 mm high, weight 1250 kgs		
Finish	Powered coated, textured finish to RAL 7032		
Optional extras	PC interface and data logging software Separate auxiliary control / fan supply 480V / 277V designs available Anti-condensation heaters Low profile UK road trailer with lockable cable storage	Matching twist cable connectors Delta connection option Power cable sets Aluminised steel	60 Hz operation Floor fixing kit Sun shield Base frame

TECHNICAL SUMMARY SHEET

HAC415 - 1000 continued

HAND HELD CONTROLLER - *iHCC*

The HAC415-1000 is supplied with the Hillstone iHHC (intelligent hand held controller) and provides remote control and display of the load bank power level. Two modes of operation are provided :

Load adjust mode allows the operator to pre-select the required load in KW's as displayed on the iHHC. Pressing the *ACCEPT* button on the iHHC will instruct the load bank to connect the requested power level and then automatically change the iHHC to **Running Load Mode**. During **Running Load Mode** the iHHC will automatically display the measured KW's and the operator can make incremental adjustments of the power level by pressing the *LOADUP* or *LOADDOWN* buttons. Any changes to the load selection will be shown on the iHHC display.

Notes : During **Running Load Mode** an operator can pre-select and *ACCEPT* an alternative load setting to simulate load profiles.

A single iHHC can also control and display the total power of multiple, parallel connected load banks. When a digital panel meter and iHHC is fitted to a load bank, the. A ten metre interconnection control cable is provided with the iHHC. Longer control cables are available on request



Optional extras – additional data

PC INTERFACE & DATA LOGGING SOFTWARE

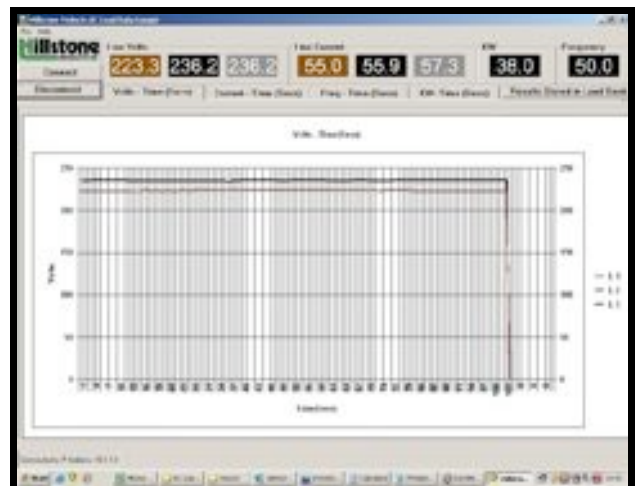
The PC interface and data logging software allows transfer and storage of test data to a laptop or PC using Hillstone/Windows XP software.

The computer display includes line volts, phase volts, line current, power and frequency plus a real time graphical display.

ROAD TRAILER

The HAC415-1000 load bank can be supplied on a double axle UK road trailer, complete with a lockable cable storage compartment.

The low profile design provides excellent towing stability and low wind resistance.



typical PC display

Notes :

- Units are rated for continuous operation at max volts
- Standard resistance element tolerance +/- 5%
- For high ambient operation in direct sun light, a sun shield option is recommended.
- Where delta connection testing is required with no neutral, or for dual 50/60 hz use, a separate auxiliary supply is required.
- Changes to specification, components, dimensions or weights may vary without prior notice.
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