

HAC415 Series 250KW – 1200KW Outdoor Rated 3 Phase AC Load Banks



Features

- **SIMPLE OPERATION**
- **INTELLIGENT HAND HELD CONTROLLER**
- **SAFETY ISOLATION CONTACTORS**
- **FAN FAIL PROTECTION**
- **LOW COST**
- **HIGH POWER**
- **NO AUX MAINS REQUIRED**
- **FUSE PROTECTION**
- **PARALLEL OPERATION**
- **PC DATA LOGGING AVAILABLE**



The Hillstone HAC series load banks offer a low cost solution to on-site AC testing of generators and UPS systems. Units incorporate force cooled high powered resistor elements controlled via our intelligent hand held controller. Safety features including HRC fuse protection, fan failure shut down and emergency stop push button. Digital meter and PC interface with data logging facilities are also available. Load banks can also be supplied for both three phase and single phase testing.

HAC415 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
HAC415-250	415V	250KW	347A	229KW	332A	210KW	304A
HAC415-300	415V	300KW	416A	275KW	399A	252KW	365A
HAC415-400	415V	400KW	555A	367KW	532A	336KW	487A
HAC415-500	415V	500KW	694A	459KW	665A	420KW	608A
HAC415-600	415V	600KW	833A	551KW	798A	504KW	730A
HAC415-800*	415V	800KW	1111A	734KW	1064A	672KW	974A
HAC415-1000*	415V	1000KW	1388A	918KW	1331A	840KW	1217A
HAC415-1200*	415V	1200KW	1666A	1102KW	1597A	1008KW	1461A

*Double Module Load Bank

Hand Held Controller – iHHC Operation

The iHHC (intelligent hand held controller) 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 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 iHHC will automatically display the measured KW's during Running Load mode. A ten metre interconnection control cable is provided with the iHHC. Longer control cables are available on request



HAC Specification:

Description:	Outdoor, adjustable, resistive AC load bank
Max voltage:	415 volts, three phase, 4 wire plus earth
Rating:	See Performance Table
Frequency:	50Hz (60Hz Optional)
Adjustment:	Manual Control Via iHHC controller Switched Steps of 1KW
Controls:	Fan control switch and emergency stop, iHHC controller
Cable termination:	Internal Busbar connection. Cables can be supplied as an optional extra. Powerlock cable connectors available as an optional extra.
Cooling:	415V 3 phase, 50 Hz, horizontal force air cooling fan, powered from the test source or optional separate auxiliary supply.
Element type:	Insulated, air cooled, sheathed resistor elements

Enclosure Specification:

Environmental Protection:	Designed for outdoor operation, electrical control chamber IP54, element chamber IP21.
Construction:	316L Stainless steel frame and panels.
Finish:	Powder coated, textured finish RAL 7032
Operating temperature:	0-50 Deg C
Storage temperature:	0-80 Deg C
Movement:	Forklift Movement

HAC415 Case Size:

Load Bank Type Ref	Case Size	Length (mm)	Width (mm)	Height (mm)	Approx. Weight (Kgs)
HAC415-250	D	1800mm	800mm	1170mm	350Kgs
HAC415-300	D	1800mm	800mm	1170mm	400Kgs
HAC415-400	E	2230mm	940mm	1170mm	480Kgs
HAC415-500	E	2230mm	940mm	1170mm	600Kgs
HAC415-600	E	2230mm	940mm	1170mm	650Kgs
HAC415-800*	E+E	2230mm	1880mm	1170mm	960Kgs
HAC415-1000*	E+E	2230mm	1880mm	1170mm	1200Kgs
HAC415-1200*	E+E	2230mm	1880mm	1170mm	1300Kgs

*Double Module Load Bank

Available Optional Extras

DIGITAL POWER METER

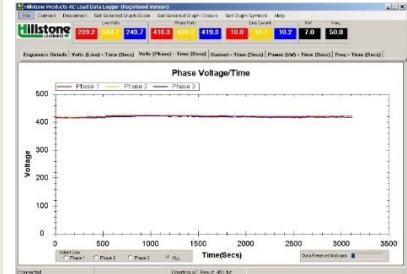
A panel mounted power meter is provided to display, line volts, phase volts, line current, power and frequency



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 software.

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



POWERLOCK CONNECTORS

Industry standard compatible power single pole connectors are designed to provide safe, reliable and quick connection of Cable to Cable or Cable to Equipment in Electrical power distribution systems. Our connectors feature a unique clip contact removal system, improved finger proofing, easier mating and thicker wall sections on the mouldings



OPTIONAL SINGLE PHASE OPERATION:

Special units can be ordered to allow both three phase and single phase testing. A 3 Phase Auxiliary supply will be required for the cooling circuits during single phase testing.

The optional single phase performance is detailed below:

HAC415 Single Phase Performance Table:

Load Bank Type Ref	Max. Volts	Power at 240V	Amps at 240V	Power at 230V	Amps at 230V	Power at 220V	Amps at 220V
HAC415-250	240V	83KW	115A	76KW	110A	70KW	101A
HAC415-300	240V	100KW	138A	91KW	133A	84KW	121A
HAC415-400	240V	133KW	185A	122KW	177A	112KW	162A
HAC415-500	240V	166KW	231A	153KW	221A	140KW	203A
HAC415-600	240V	200KW	277A	183KW	266A	168KW	243A
HAC415-800*	240V	266KW	370A	244KW	354A	224KW	324A
HAC415-1000*	240V	333KW	463A	306KW	443A	280KW	405A
HAC415-1200*	240V	400KW	555A	367KW	532A	336KW	487A

Notes:

- Units are rated for continuous operation at max volts
- Panel mounted load switches are available as an alternative to the hand held controller (see HACM Range)
- Optional Matching twist lock cable connectors can be provided for you to fit to your external cables
- Use L1, neutral and earth connectors only for optional single phase testing - with 3ph aux supply option
- Standard resistance element tolerance +/- 7.5%
- Data logging software OS compatibility: Microsoft Windows
- Changes to specification, components, dimensions or weights may vary without prior notice.
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