

Doc ref	HACV415-series 500KW to 1200KW
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TECHNICAL SUMMARY SHEET

HACV415 series – 500KW to 1200KW 3 PHASE AC LOAD BANKS

Features

- SIMPLE OPERATION
- SAFETY ISOLATION CONTACTORS
- FAN FAIL PROTECTION
- HIGH POWER VERTICAL VENTILATION
- STAR OR DELTA OPERATION
- FUSE PROTECTION
- PARALLEL OPERATION
- HAND HELD CONTROLLER OPTION
- PC DATA LOGGING OPTION
- TWIST LOCK CABLE CONNECTOR OPTION



TYPICAL 800KW UNIT ILLUSTRATED

The Hillstone HACV series load banks offer a low cost solution to on-site AC testing of generators and UPS systems.

Units incorporate vertical force cooling with high powered resistor elements controlled via panel mounted switches. Safety features including HRC fuse protection, fan failure / phase reversal shut down and emergency stop push button. A panel mounted power meter, hand held controller, PC interface with data logging is 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	Case Size	Approx weight
HACV415-500	415V	500KW	694A	459KW	666A	420KW	637A	1	600kgs
HACV415-600	415V	600KW	833A	550KW	798A	504KW	763A	1	660kgs
HACV415-800	415V	800KW	1111A	735KW	1065A	672KW	1018A	2	900kgs
HACV415-1000	415V	1000KW	1389A	918KW	1331A	840KW	1273A	2	1000kgs
HACV415-1200	415V	1200KW	1666A	1100KW	1596A	1008KW	1526A	2	1100kgs

Specification

Max voltage	415 volts, three phase, 3 wire delta
Frequency	50 hz (60 hz optional)
Rating	see above table
Adjustment	Standard manual switch steps from 30KW to max power in 30KW steps. Fine control at either 10KW or 1KW is available as an optional extra.
Controls	Load step illuminated panel switches, fan control switch and emergency stop push button
Cable termination	Internal bus bars. Safety twist lock cable connectors available as an optional extra.
Cooling	3 phase, 50 Hz, vertical force air cooling fans, powered from the test source or optional auxiliary three phase mains supply (see note 4)
Element type	Insulated, air cooled, stainless steel, Incoly, sheathed resistor elements (see note 2)
Environmental Protection	Designed for outdoor operation, electrical control chamber IP54, element chamber IP21
Construction	Single module assembly supplied on a steel base frame with fork pockets
Finish	Powered coated, textured finish RAL 7032
Operating temperature	0-50 deg C
Storage temperature	0-80 deg C
Movement	Fork pockets
Optional extras	Digital power meter Hand held controller Safety twist lock cable connectors PC interface & data logging software Test cable sets Separate aux mains supply Sun shield Aluminised steel 480V and 600V designs available Road trailer

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HACV415 series continued

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Approx case sizes

case size	length	depth	height
1	1080 mm	1570 mm	2020 mm
2	2020 mm	1570 mm	2020 mm

Optional extras - additional information

OPTIONAL DIGITAL POWER METER

The panel mounted digital power meter displays line volts, phase volts, line current, power and frequency.

OPTIONAL HAND HELD CONTROLLER + DIGITAL POWER METER

The optional iHHC3 (intelligent hand held controller, issue 3) comes complete with the above panel mounted power meter and provides remote control and display of the load bank power level. Load banks supplied with the iHHC3 incorporate smaller switch steps from 10KW to max power in 10KW steps. Switch steps down to 1KW are available if required. The iHHC3 includes a wide 175 deg viewing angle with a 4 line OLED display enabling excellent daylight readability.

The hand held controller automatically identifies the number of load banks which are connected in parallel and displays the total KW load available. A maximum of 8 load banks can be connected in parallel.

The operator can use the push button controls to select the required load which is then displayed on the iHHC3 as *RUN KW*.

Adjustment of the load is easily achieved using the *UP-DOWN* push buttons.

The *RUN KW* display on the iHHC3 will automatically update with the actual KW supplied by the load bank, irrespective of any change in load voltage.

A five metre interconnection control cable is provided with the iHHC3.

Longer control cables are available on request.

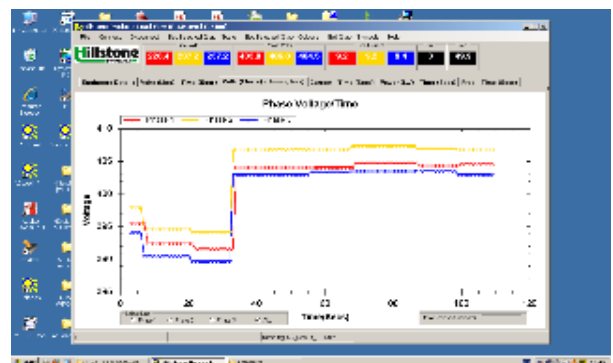


OPTIONAL PC INTERFACE & DATA LOGGING SOFTWARE + DIGITAL POWER METER

The PC interface and data logging software allows transfer and storage of test data to a laptop or PC using Hillstone software, (see note 3)

The computer display includes line volts, phase volts, line current, power and frequency plus a real time graphical display. This option includes the above panel mounted digital power meter

typical PC display



Notes :

- Units are rated for continuous operation at max volts
- Standard resistance element tolerance +/- 7.5%
- Data logging software OS compatibility : Microsoft Windows XP, Windows 7
- An optional panel mounted control switch is available for selection of fan and controls from either a separate auxiliary mains or test source.
- Changes to specification, components, dimensions or weights may vary without prior notice.
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