

Doc ref	HACM415-series 14KW to 200KW
Issue	4
Date	01/12/12
Page	1 of 2

TECHNICAL SUMMARY SHEET

HACM415 series – 14KW to 200KW

3 PHASE AC LOAD BANKS

Features

- **SIMPLE OPERATION**
- **SAFETY CABLE CONNECTORS**
- **ISOLATION CONTACTORS**
- **FAN FAIL PROTECTION**
- **LOW COST**
- **HIGH POWER**
- **NO AUX MAINS REQUIRED**
- **FUSE PROTECTION**
- **SINGLE PHASE OPTION**
- **MANUAL LOAD SWITCHES**
- **PARALLEL OPERATION**



Typical 90KW load bank with optional twist lock cable connectors

The Hillstone HACM series load banks offer a low cost solution to on-site AC testing of UPS and generators. Units incorporate force cooled high powered resistor elements plus features including BS/EN Commando connectors or optional twist lock safety cable connectors, HRC fuse protection, fan failure shut down and emergency stop push button. Simple control via illuminated panel mounted load selection switches, plus optional digital meter. Load banks can also be supplied for both three phase and single phase testing.

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
HACM415-14	415V	14KW	19A	13KW	18A	12KW	17A	1	30kgs
HACM415-24	415V	24KW	33A	22KW	32A	20KW	30A	2	45kgs
HACM415-30	415V	30KW	42A	28KW	40A	25KW	38A	2	50kgs
HACM415-35	415V	35KW	49A	32KW	46A	29KW	44A	3	60kgs
HACM415-65	415V	65KW	90A	60KW	86A	55KW	83A	4	80kgs
HACM415-90	415V	90KW	125A	83KW	120A	76KW	114A	5	100kgs
HACM415-100	415V	108KW	150A	99KW	143A	91KW	137A	5	110kgs
HACM415-125	415V	126KW	175A	116KW	167A	106KW	160A	6	120kgs
HACM415-160	415V	162KW	225A	149KW	215A	136KW	206A	6	150kgs
HACM415-200	415V	198KW	275A	182KW	263A	166KW	252A	6	160kgs

Specification

Max voltage	415 volts, three phase, 4 wire with neutral (for delta use see note 8)
Frequency	50 hz (60 hz option) see note 9
Adjustment	from 1KW to max power, selected via panel mounted illuminated switches.
Controls	Control / fan control switch and emergency stop and load selection switches
Cable termination	Panel mounted BS4343 Commando socket (see note 2 & 3)
Cooling	3 phase, 50 Hz, horizontal force air cooling fan, powered from the test source(see note 4)
Element type	insulated, air cooled, sheathed resistor elements (see note 5)
Environmental Protection	Designed for outdoor operation, electrical control chamber IP54, element chamber IP21 (see notes 6 & 7). Sun shield option recommended for use above 40 deg C
Construction	Robust Zintec steel frame and panels and drip lid
Finish	Powered coated, textured finish RAL 7032
Operating temperature	0-40 deg C (see note 6 and 7)
Storage temperature	0-80 deg C
Movement	Swivel castors and suitable for folk lifting, optional lifting eyes.
Optional extras	Digital panel meter Test cable sets Single phase testing operation Twist lock connectors Separate auxiliary supply 480V / 277V designs available Floor fixing kit Sun shield Delta connection option Louvered inlet and outlets Aluminised steel Road trailer

Doc ref	HACM415-series 14KW to 200KW
Issue	4
Date	01/12/12
Page	2 of 2

HACM415 series continued

case size	length	width	height
1	700 mm	400 mm	700 mm
2	885 mm	420 mm	800 mm
3	885 mm	470 mm	1020 mm
4	1000 mm	520 mm	1020 mm
5	1000 mm	570 mm	1020 mm
6	1000 mm	800 mm	1020 mm

OPTIONAL DIGITAL POWER METER

A panel mounted power meter can be provided to display, line volts, phase volts, line current, power and frequency.

SINGLE PHASE OPERATION

Special units can be ordered to allow both three phase and single phase testing.

The optional single phase performance is detailed below ;

LOAD BANK type ref.	Max volts	Power at 240V	Amps at 240V	Power at 230V	Amps at 230V	Power at 220V	Amps at 220V	Power * at 110V	Amps * at 110V
HACM415-14	240V	4.7KW	19A	4.3KW	18A	3.9KW	17A	1KW	8A
HACM415-24	240V	8KW	33A	7KW	32A	6KW	30A	1.5KW	15A
HACM415-30	240V	10KW	42A	9KW	40A	8KW	38A	2KW	19A
HACM415-35	240V	12KW	49A	10KW	46A	9KW	44A	2.2KW	22A
HACM415-65	240V	21KW	90A	20KW	86A	18KW	83A	4.5KW	42A
HACM415-90 **	240V	30KW	125A	27KW	120A	25KW	114A	6KW	57A
HACM415-100 **	240V	36KW	150A	33KW	143A	30KW	137A	7.5KW	68A
HACM415-126 **	240V	42KW	175A	38KW	167A	35KW	160A	8KW	80A
HACM415-165 **	240V	54KW	225A	49KW	215A	45KW	206A	11KW	103A
HACM415-200 **	240V	66KW	275A	60KW	263A	55KW	252A	13KW	126A

* 110V testing only available with optional auxiliary supply.

** Units require auxiliary supply option for single phase testing.

Notes :

- Units are rated for continuous operation at max volts
- Twist lock cable connectors are available as an optional extra.
- A separate cable set may be required for single phase use.
- Where single phase testing option is supplied the fan operates on supply from L1 and neutral.
- Standard resistance element tolerance +/- 7.5%
- For high ambient operation in direct sun light, a sun shield option is recommended.
- Contact our sales office for use above 40 deg C
- Where delta connection testing is required with no neutral a separate auxiliary supply is required.
- For dual 50 / 60hz use a separate auxiliary supply is required.
- Changes to specification, components, dimensions or weights may vary without prior notice.
- Information in literature, quotations, manuals or datasheets are intended to be correct at the time of publication. Hillstone Products bears no responsibility for the accuracy of any information given.
- All information in this publication is the intellectual property of Hillstone Products Ltd.