TECHNICAL SUMMARY SHEET
HACM415 Series 10kW To 30kW

Issue: 6 (May 2020)

HACM415 Load Banks 10kW - 30kW

20kW to 30kW case

10kW to 15kW case

Power Meter

The Hillstone **HACM** load bank range offers a low cost solution of AC testing of small single & three phase UPS systems and generators.

The **HACM** load bank allows user operation and control by panel mounted load channel selection which uses our preparatory Ni-Chrome Mica resistor technology.

The **HACM safety** features include:

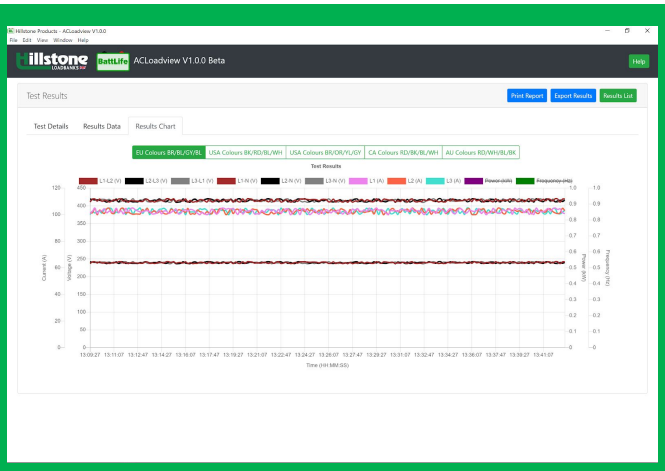
- Contactors and circuit breaker isolation
- Panel mounted emergency stop
- Fan failure shut down
- 3 metre cable sets with matching connectors.

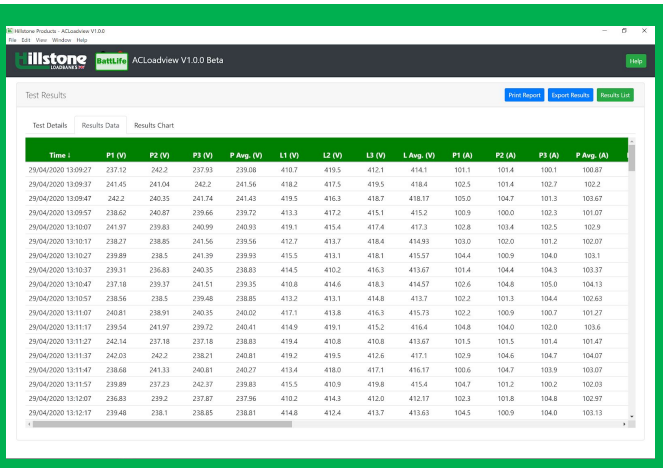
Optional extras include:

- Panel meter with digital display of: volts, amps, power and frequency
- Extra cable length available
- Auxiliary supply

The **HACM** load banks, when fitted with a digital power meter, are fitted with a RS485 data port to enable AC data logging of the performed load test to the Hillstone **LoadView** SD card recorder, on a default time period.

The **LoadView** app imports all the parameters from the digital meter, into a CSV data file, to give an interactive graphical display and reporting of the results and saved against the asset under test.





Hillstone Products Ltd. Units 1&2 Freetown Business Park, Hudcar Lane, Bury, Lancashire, BL9 6HD, UK

TEL: +44 (0)161-763-3100 sales@hillstone.co.uk www.hillstone.co.uk

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3Phase Rating 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
HACM415-10	415V	10.0kW	13.9A	9.2kW	13.3A	8.4kW	12.7A
HACM415-15	415V	15.0kW	20.8A	13.8kW	20.0A	12.6kW	19.1A
HACM415-20	415V	20.0kW	27.8A	18.4kW	26.6A	16.8kW	25.5A
HACM415-25	415V	25.0kW	34.7A	23.0kW	33.3A	21.0kW	31.8A
HACM415-30	415V	30.0W	41.7A	27.6kW	39.9A	25.2kW	38.2A

1Phase Rating 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
HACM415-10	240V	3.3kW	13.9A	3.1kW	13.3A	2.8kW	12.7A
HACM415-15	240V	5.0kW	20.8A	4.6kW	20.0A	4.2kW	19.1A
HACM415-20	240V	6.7kW	27.8A	6.1kW	26.6A	5.6kW	25.5A
HACM415-25	240V	8.3kW	34.7A	7.7kW	33.3A	7.0kW	31.8A
HACM415-30	240V	10.0kW	41.7A	9.2kW	39.9A	8.4kW	38.2A

HACM415 Specification:

Description:	Indoor, adjustable, resistive AC load bank
Max voltage:	415 volts, three phase, 4 wire plus earth
Rating:	See Performance Table
Frequency:	50Hz / 60Hz
Adjustment:	Manual control via switched steps with a minimum load step of 500W
Controls:	Fan control switch, emergency stop, load switches
Cable termination:	BS4343 industrial panel mounted plug on 10kW to 20kW units Powerlock cable connectors on 25kW to 30kW units
Cooling:	415V three phase, 50/60 Hz, horizontal force air cooling fan, powered from the test source.
Element type:	Ni-Chrome Mica Resistor Technology, air cooled resistor elements. Element tolerance +/-5%
Environmental Protection:	Designed for indoor operation, IP21
Construction:	Light Weight Aluminium case
Finish:	Powder coated, textured finish RAL 7032
Operating temperature:	0-50 deg C
Storage temperature:	0-80 deg C
Movement:	Handles and Swivel Castors.

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HACM415 panel mounted connectors and cables:

10kW	15kW & 20kW	25kW & 30kW
Panel mounted load bank connectors		
3 phase 16A BS4343 	**3 phase 32A BS4343** 	**Inline Powerlock connector** 
Cable set connectors		
		

HACM415 Case Size:

Load Bank Type Ref	Case Size	Length (mm)	Width (mm)	Height (mm)	Approx. Weight (Kgs)
HACM415-10	1	790mm	290mm	550mm	20Kgs
HACM415-15	1	790mm	290mm	550mm	23Kgs
HACM415-20	1	790mm	290mm	550mm	25Kgs
HACM415-25	2	790mm	470mm	550mm	30Kgs
HACM415-30	2	790mm	470mm	550mm	30Kgs

Standards And Quality Assurance

The **HAC415 AC Load Bank Range** is manufactured in the UK to the following EU standards and ISO procedures:

Low Voltage Directive 2006/95/EC
EMC Directive 2004/108/EC
BSEN61000-6-3 2007 amendments for 2011
BSEN61000-6-4 2007 amendments for 2011
Hillstone Products Quality Assurance procedures ISO 9001:2015

QMS ISO 9001 : 2015 REGISTERED
Cert No. 14124754

Notes

1. Information in technical literature, quotations or datasheets are intended to be correct at the time of publication.
2. We reserve the right to make detailed changes to specification, components, dimensions or weights at the time of design or manufacture without prior notice.
3. All designs, software & information is the copyright and intellectual property of Hillstone Products Ltd.

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