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Hillstone – **VARICON**- automatic constant current DC load bank

Type ref **HAV260-15 series3**

- Automatic range selection
- Lead Acid or Ni-cad battery testing
- Automatic constant current control
- Wide voltage range up to 260V DC
- Simple operation via remote hand held controller
- Auto stop on time and battery voltage
- Digital LCD display
- Safety isolation contactors
- Fan fail protection
- High power up to 15KW
- Cables included
- Portable
- Computer interface option



15 KW unit illustrated

The Hillstone **HAV 260-15 series3** load bank is designed for automatic constant current DC battery discharge testing for a wide range of lead acid and ni-cad batteries and incorporates the unique Hillstone **VARICON** remote hand held controller which provides a cost effective solution to fully automatic load banks.

All units incorporate light weight, force cooled high power resistor elements and several safety features including reverse polarity connection, high battery volts, fan fail, auto shut-down, emergency stop push button and battery isolation of each load circuit via continuously rated DC contactors. The unit also includes automatic battery voltage selection, thereby eliminating incorrect operator use.

Load bank operation - The unit should be connected to a 240V (110V optional) single phase auxiliary mains supply and also to the battery . On power up, the load bank will carry out a self diagnostic check and battery check for correct polarity and voltage. The load bank will then automatically select the appropriate internal circuits which are compatible with the connected battery.

The operator then enters the required stop voltage and discharge time period, followed by the discharge current before commences the test by pressing the START push button.

The battery voltage, load current and elapse time is displayed on the remote hand held controller during the test. The load bank will

automatically maintain the load current constant as the battery voltage falls.

When the battery voltage falls to the end of discharge voltage (or pre-set time period) the test will stop by automatic disconnection via internal contactors. The display of elapse time and amperhours discharged will be frozen on the LCD screen. The test can be terminated at any time by pressing the STOP push button.

The load bank also incorporates a PAUSE button which allows the test to be stopped and then re-started without re-setting all the test parameters. The elapse time and amperhours readings will also re-start without resetting to zero. This feature enables operators to remove faulty cells during the test if required.

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Specification

Type ref	HAV260-15 series3		
Nominal DC voltage ranges	50V	110V	220V
Max. DC voltages	65V	130V	260V
Max. DC currents	115A	115A	57A
Max power rating	7.5KW	15KW	14.8KW
Max. No. lead acid cells	30	60	120
Max. No. Ni-cad cells	42	96	192
Constant current performance (rating dependant on voltage)	76A at 43V	84A at 85V	42A at 170V
Load current control range	20A to 115A		
Control resolution	+/- 500mA nominal		
Digital hand held controller display	4 line 20 character numerical backlit display		
Display information	Battery volts	Battery current	Elapse time
	Discharged Ampere hours		Test status / fault
Auxiliary mains supply	240V single phase 50 hz		
Mains cable set	2 metre mains cable with IEC socket & UK 13A plug		
DC cable set	3 metre twin, flexible cable set with industrial plug/socket		
Hand held controller cable	5 metres (longer available on request)		
Case size	1000mm long x 550mm wide x 700mm high		
Weight	45 kgs		
Finish	Light grey RAL7032 textured finish		
Environmental protection rating	IP21		
Movement	Swivel castors and folk lift features		
Operating temperature range	0 – 40 deg C		
Storage temperature range	0 – 80 deg C		

Notes

- 1) Units are designed for indoor use only in a clean, dry and well ventilated environment.
- 2) The available constant current and ratings are proportional to the end of test voltage.
- 3) Information in technical literature, quotations or data sheets are intended to be correct at the time of publication. Hillstone Products Ltd bears no responsibility for the accuracy of any information given.
- 4) We reserve the right to make detail changes to specification, components, dimensions or weights at the time of design or manufacture without prior notice.
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Optional extras

1. 110V auxiliary mains supply
2. Computer interface to transfer battery data to a laptop computer.
3. Extra length battery cables

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