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Hillstone – VARICON- automatic constant current DC load bank

Type ref **HAV260-15 series2**

- Automatic range selection
- Lead Acid or Ni-cad battery testing
- Automatic constant current control
- Wide battery voltage range 12V to 260V DC
- Simple operation
- Auto stop on time and battery voltage
- Digital LCD display
- Safety isolation contactors
- Fan fail protection
- High power up to 15KW
- Compact design
- Cables included
- Portable
- Computer interface option



15Kw unit illustrated

The Hillstone **HAV 260-15 series2** 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 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 to ensure the equipment is functioning correctly and also check the battery is connected correctly and the battery voltage is within the operating limits of the load bank design. 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 will be displayed on the LCD display during the test. The load bank will

automatically maintain the load current constant at the pre-set value, as the battery voltage falls.

When the battery voltage falls to the pre-set 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 manual 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 be re-start with 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 series2				
Nominal DC voltage ranges	12V	24V	50V	110V	220V
Max. DC voltages	16V	32V	65V	130V	260V
Max. DC currents	57A	115A	115A	115A	57A
Max power rating	912W	3.6KW	7.5KW	15KW	14.8KW
Max. No. lead acid cells	6	15	30	60	120
Max. No. Ni-cad cells	12	22	42	96	192
Constant current performance (rating dependant on voltage)	38A at 10.8V	75A at 21V	76A at 43V	84A at 95V	42A at 192V
Load current adjustment	less than 1 amp to max current				
Digital Panel 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				
Case size	1000mm long x 550mm wide x 650mm high				
Weight	45 kgs				
Finish	Light grey RAL7032 textured finish				
Environmental protection rating	IP21				
Movement	Swivel castors and folk lift features (optional lifting eyes)				
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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