

HAV520 Varicon Series 3 Automatic Constant Current Load Bank

Features

- Automatic range selection
- Lead Acid or Ni-cad battery testing
- Automatic constant current control
- Wide battery voltage up to 520V DC
- Simple operation
- Auto stop on time & battery voltage
- Hand held controller with OLED display
- Safety isolation contactors
- Fan fail protection
- High power up to 28KW
- Compact design
- Cables included
- Portable
- Computer interface option



The Hillstone HAV520 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 50/60Hz (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 commencing with the test by pressing the START push button.

The battery voltage, load current and elapse time will be displayed on the hand held OLED 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 ampere hours discharged will be frozen on the OLED 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 restarted without re-setting all the test parameters. The elapse time and ampere hours readings will also re-start without resetting to zero. This feature enables operators to remove faulty cells during the test if required.



HAV520 Specification:

Type Ref	HAV520-28 Series 3		
Nominal DC Voltage	120V	240V	480V
Maximum DC Voltage	130V	260V	520V
Maximum DC Currents	55A	55A	55A
Maximum Power Rating	7KW	14KW	28KW
Maximum No Of Lead Acid Cells	60	120	240
Maximum No Of NiCad Cells	96	192	385
Nominal Constant Current Performance	42A at 99V 32A at 76V	42A at 198V 32A at 153V	45A at 432V 32A at 307V
Load Current Range	1A to Maximum		
Digital Display	4 Line OLED Display		
Display Information	Battery Volts, Battery Current, Elapsed Time, Discharged Ampere Hours, Test Status / Faults		
Auxiliary Mains Supply	240V single phase 50/60 Hz		
Mains Cable Set	2 Meter IEC socket with UK 13A Plug		
DC Cable Set	3 Meter twin flexible cable set with industrial plug and socket		
Hand Held Controller	5 Meter (longer available on request)		
Finish	Light Grey RAL7032 textured finish		
Environmental Protection Rating	IP21		
Movement	Swivel Castors and Top Handles		
Operating Temperature	0 – 40 Degs C		
Storage Temperature	0 – 80 Degs C		

HAV520 Case Sizes:

Load Bank Type	Length (mm)	Width (mm)	Height (mm)	Weight (Kgs)
HAV520-28	1030mm	560mm	790mm	51Kgs

Notes

- Units are designed for indoor use only in a clean, dry and well ventilated environment.
- The available constant current and ratings are proportional to the end of test voltage.
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