

HAV60 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 60V 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 18KW
- Compact design
- Cables included
- Portable
- Computer interface option



The Hillstone HAV60 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 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 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.



HAV60 Specification:

Type Ref	HAV60-12 Series 3		
Nominal DC Voltage	12V	24V	48V
Maximum DC Voltage	15V	30V	60V
Maximum DC Currents	200A	200A	200A
Maximum Power Rating	3KW	6KW	12KW
Maximum No Of Lead Acid Cells	7	15	30
Maximum No Of NiCad Cells	11	21	42
Nominal Constant Current Performance	133A at 10V	140A at 21V 120A at 18V	143A at 43V 113A at 30V
Type Ref	HAV60-18 Series 3		
Nominal DC Voltage	12V	24V	48V
Maximum DC Voltage	15V	30V	60V
Maximum DC Currents	300A	300A	300A
Maximum Power Rating	4.5KW	9KW	18KW
Maximum No Of Lead Acid Cells	7	15	30
Maximum No Of NiCad Cells	11	21	42
Nominal Constant Current Performance	200A at 10V	210A at 21V 180A at 18V	215A at 43V 150A at 30V
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 50Hz		
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		

HAV60 Case Sizes:

Load Bank Type	Length (mm)	Width (mm)	Height (mm)	Weight (Kgs)
HAV60-12	1000mm	500mm	750mm	50Kgs
HAV60-18	1000mm	550mm	750mm	55Kgs

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.
- Information in technical literature, quotations or data sheets are intended to be correct at the time of publication.
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