

HAV130 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 130V 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 52KW
- Compact design
- Cables included
- Portable
- Computer interface option



The Hillstone HAV130 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 be re-start without resetting to zero. This feature enables operators to remove faulty cells during the test if required.



HAV130 Specification:

Type Ref	HAV130-13 Series 3		
Nominal DC Voltage	24V	48V	120V
Maximum DC Voltage	32.5V	65V	130V
Maximum DC Currents	100A	100A	100A
Maximum Power Rating	3.2KW	6.5KW	13KW
Maximum No Of Lead Acid Cells	15	30	60
Maximum No Of NiCad Cells	23	46	92
Nominal Constant Current Performance	64A at 21V 46A at 15V	66A at 43V 50A at 33V	83A at 108V 58A at 76V
Type Ref	HAV130-26 Series 3		
Nominal DC Voltage	24V	48V	120V
Maximum DC Voltage	32.5V	65V	130V
Maximum DC Currents	200A	200A	200A
Maximum Power Rating	6.5KW	13KW	26KW
Maximum No Of Lead Acid Cells	7	15	30
Maximum No Of NiCad Cells	23	46	92
Nominal Constant Current Performance	129A at 21V 92A at 15V	132A at 43V 100A at 33V	166A at 108V 116A at 76V
Type Ref	HAV130-52		
Nominal DC Voltage	24V	48V	120V
Maximum DC Voltage	32.5V	65V	130V
Maximum DC Currents	400A	400A	400A
Maximum Power Rating	13KW	26KW	52KW
Maximum No Of Lead Acid Cells	7	15	30
Maximum No Of NiCad Cells	23	46	92
Nominal Constant Current Performance	258A at 21V 184A at 15V	264A at 43V 203A at 33V	332A at 108V 233A at 76V



HAV 52KW Case

HAV130 Specification:

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

HAV130 Case Sizes:

Load Bank Type	Length (mm)	Width (mm)	Height (mm)	Weight (Kgs)
HAV130-13	1000mm	500mm	750mm	50Kgs
HAV130-26	1000mm	600mm	1100mm	65Kgs
HAV130-52	1000mm	600mm	1350mm	85Kgs

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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