

HLB60-120 Series 7KW to 39KW Dual Voltage DC/AC Load Banks

Features

- Manual constant current control
- Lead Acid or Ni-cad battery testing
- Battery charger / rectifier testing plus single phase
- AC testing of UPS and generators
- Simple operation via panel switches
- Dual voltage feature
- Test sockets for voltage and current readings
- Adjustable load current
- High voltage operation up to 130V
- Safety isolation contactors
- Fan fail protection
- High power
- Portable



The Hillstone HLB60-120 series load banks are designed to perform a manually controlled constant current discharge on lead acid or ni-cad batteries up to 130 volts, DC testing on battery charger / rectifiers, plus single phase AC tests on UPS or generators. Each unit includes fine control from approximately 1A to max current via panel mounted switches and force cooled high power resistor elements. Safety features including fan fail auto shut-down, emergency stop push button and battery isolation of each load circuit via continuously rated DC contactors. All designs incorporate the Hillstone dual voltage feature which allows double the available load current at half voltage.

HLB60-120 Performance Table:

Load Bank Type	Max Watts	Range 1 Amps At 60V	Range 2 Amps At 120V	Range 1 Minimum Ohms	Range 2 Minimum Ohms
HLB60-120-7	6.5KW	100A	50A	0.65Ω	2.60 Ω
HLB60-120-10	10KW	150A	75A	0.43 Ω	1.75 Ω
HLB60-120-13	13KW	200A	100A	0.33 Ω	1.30 Ω
HLB60-120-16	16KW	250A	125A	0.26 Ω	1.04 Ω
HLB60-120-20	20KW	300A	150A	0.22 Ω	0.87 Ω
HLB60-120-23	23KW	350A	175A	0.19 Ω	0.75 Ω
HLB60-120-26	26KW	400A	200A	0.16 Ω	0.65 Ω
HLB60-120-30	30KW	450A	225A	0.14 Ω	0.58 Ω
HLB60-120-33	33KW	500A	250A	0.13 Ω	0.52 Ω
HLB60-120-36	36KW	550A	275A	0.12 Ω	0.47 Ω
HLB60-120-39	39KW	600A	300A	0.11 Ω	0.43 Ω



HLB60-120 Specification:

Type Ref	HLB60-120 Series	
Nominal Voltage	Range 1 : 60V	Range 2 : 120V
Maximum Voltage	Range 1 : 65V	Range 2 : 130V
Test Voltage	DC or single phase 50-60 hz	
Maximum Available Current	Refer to rating table and easy calculator	
Rating	Continuous rating at full load, max voltage	
Maximum Number Of Lead Acid Cells	Range 1 : 30 Cells	Range 2 : 60 Cells
Maximum Number Of Ni-cad Cells	Range 1 : 48 Cells	Range 2 : 96 Cells
Test Sockets	4 mm shrouded test sockets are provided to allow the test engineer to measure amps and volts using his multimeter.	
Auxiliary Mains Supply	230/240V Single phase 50/60 Hz (110V optional)	
Mains Cable Set	2 metre mains cable set with IEC & UK 13A plugs	
DC Cable Set	Refer to optional extras	
Construction	Aluminium with swivel castors and carrying handles	
Finish	Light grey RAL7032 textured finish	
Cooling	Force air cooling, horizontal fans	
Environmental Protection Rating	IP21	
Movement	Top Handles Case Size A, swivel castors and suitable for fork lift	
Operating Temperature	0 – 40 deg C	
Storage Temperature	0 – 80 deg C	

HLB60-120 Case Sizes:

Load Bank Type	Case Size	Length (mm)	Width (mm)	Height 9mm)	Approx. Weight (Kgs)
HLB60-120-7	A	805mm	350mm	560mm	25Kgs
HLB60-120-10	A	805mm	350mm	560mm	28Kgs
HLB60-120-13	B	905mm	480mm	690mm	35Kgs
HLB60-120-16	B	905mm	480mm	690mm	40Kgs
HLB60-120-20	B	905mm	480mm	690mm	45Kgs
HLB60-120-23	B	905mm	480mm	690mm	55Kgs
HLB60-120-26	C	1050mm	590mm	950mm	60Kgs
HLB60-120-30	C	1050mm	590mm	950mm	65Kgs
HLB60-120-33	C	1050mm	590mm	950mm	110Kgs
HLB60-120-36	D	1050mm	590mm	950mm	120Kgs
HLB60-120-39	D	1050mm	590mm	950mm	130Kgs

Optional extras

- 1) DC cable sets: 3, 5 or 10 metre lengths
- 2) 110V auxiliary mains input
- 3) Elapse discharge time indicator

Easy load bank selector and max load calculator for different test voltages

STEP 1

- Determine the max test voltage
- Use Range 1 for max test voltages below 65V
- Use Range 2 for max test voltages below 130V

STEP 2

- Calculate required minimum ohms = Min volts / test Amps
- Example : 43 volts / 185 amps = 0.23 ohms

STEP 3

- Select minimum ohms from the appropriate Range on the rating table
- Note: always select a lower ohmic value that the result in step 2
- Example: HLB60-120-20 = 0.22 ohms on Range 1 and will provide 195A at 43V

Notes

- Units are designed for indoor use in a clean, dry and well ventilated environment.
- The available current and ratings are proportional to the end of test voltage.
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Typical Case Size D Unit Illustrated