

HLB30-60 Series 3KW to 18KW Dual Voltage DC/AC Load Banks

Features

- Manual constant current control
- Lead Acid or Ni-cad battery testing
- Battery charger / rectifier and single phase testing
- AC testing of UPS and generators
- Simple operation via panel switches
- Dual voltage feature
- Test sockets for voltage and current readings
- Adjustable load current
- Voltage operation up to 60V
- Safety isolation contactors
- Fan fail protection
- High power
- Portable



The Hillstone HLB30-60 series load banks are designed to perform a manually controlled constant current discharge on lead acid or ni-cad batteries up to 60 volts. Fine control is provided from approximately 1A to max current via panel mounted switches. The unit has force cooled high power resistor elements and several 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.

HLB30-60 Performance Table:

Load Bank Type	Max Watts	Range 1 Amps At 30V	Range 2 Amps At 60V	Range 1 Minimum Ohms	Range 2 Minimum Ohms
HLB30-60-3	3.0KW	100A	50A	0.30Ω	1.20 Ω
HLB30-60-4	4.5KW	150A	75A	0.20 Ω	0.80 Ω
HLB30-60-6	6.0KW	200A	100A	0.15 Ω	0.60 Ω
HLB30-60-7	7.5KW	250A	125A	0.12 Ω	0.48 Ω
HLB30-60-9	9.0KW	300A	150A	0.10 Ω	0.40 Ω
HLB30-60-10	10.5KW	350A	175A	0.085 Ω	0.34 Ω
HLB30-60-12	12.0KW	400A	200A	0.075 Ω	0.30 Ω
HLB30-60-13	13.5KW	450A	225A	0.066 Ω	0.27 Ω
HLB30-60-15	15.0KW	500A	250A	0.060 Ω	0.24 Ω
HLB30-60-16	16.5KW	550A	275A	0.055 Ω	0.22 Ω
HLB30-60-18	18.0KW	600A	300A	0.050 Ω	0.20 Ω



HLB30-60 Specification:

Type Ref	HLB30-60 Series	
Nominal Voltage	Range 1 : 24V	Range 2 : 48V
Maximum Voltage	Range 1 : 30V	Range 2 : 60V
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 : 13 Cells	Range 2 : 26 Cells
Maximum Number Of Ni-cad Cells	Range 1 : 22 Cells	Range 2 : 44 Cells
Test Sockets	4 mm shrouded test sockets are provided to allow the test engineer to measure amps and volts using a 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+B), swivel castors and suitable for fork lift	
Operating Temperature	0 – 40 deg C	
Storage Temperature	0 – 80 deg C	

HLB30-60 Case Sizes:

Load Bank Type	Case Size	Length (mm)	Width (mm)	Height 9mm)	Approx. Weight (Kgs)
HLB30-60-3	A	805mm	350mm	560mm	21Kgs
HLB30-60-4	A	805mm	350mm	560mm	23Kgs
HLB30-60-6	A	805mm	350mm	560mm	25Kgs
HLB30-60-7	A	805mm	350mm	560mm	27Kgs
HLB30-60-9	A	805mm	350mm	560mm	28Kgs
HLB30-60-10	A	805mm	350mm	560mm	29Kgs
HLB30-60-12	B	905mm	480mm	690mm	30Kgs
HLB30-60-13	B	905mm	480mm	690mm	31Kgs
HLB30-60-15	B	905mm	480mm	690mm	33Kgs
HLB30-60-16	B	905mm	480mm	690mm	35Kgs
HLB30-60-18	B	905mm	480mm	690mm	37Kgs

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 30V
- Use Range 2 for max test voltages below 60V

STEP 2

- Calculate required minimum ohms = Min volts / test Amps
- Example : 43 volts / 150 amps = 0.286 ohms

STEP 3

- Select minimum ohms from the appropriate Range on the rating table
- Note: always select a lower ohmic value than the result in step 2
- Example: HLB30-60-13 = 0.27 ohms on Range 2 and will provide 159A 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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