

HLB240-480 Series 13KW to 78KW 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 520V
- Safety isolation contactors
- Fan fail protection
- High power
- Portable



Case Size A HLB240-480

The Hillstone HLB240-480 series load banks are designed to perform a manually controlled constant current discharge on lead acid or ni-cad batteries up to 520 volts. Fine control is provided from approximately 1A to max current via panel mounted switches. The unit a 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.

HLB240-480 Performance Table:

Load Bank Type	Max Watts	Range 1 Amps At 240V	Range 2 Amps At 480V	Range 1 Minimum Ohms	Range 2 Minimum Ohms
HLB240-480-13	13KW	50A	25A	5.2 Ω	21.0 Ω
HLB240-480-20	20KW	75A	37A	3.4 Ω	14.0 Ω
HLB240-480-26	26KW	100A	50A	2.6 Ω	10.5 Ω
HLB240-480-32	32KW	125A	62A	2.1 Ω	8.4 Ω
HLB240-480-40	40KW	150A	75A	1.7 Ω	7.0 Ω
HLB240-480-45	45KW	175A	87A	1.5 Ω	6.0 Ω
HLB240-480-52	52KW	200A	100A	1.3 Ω	5.2 Ω
HLB240-480-58	58KW	225A	115A	1.2 Ω	4.5 Ω
HLB240-480-65	65KW	250A	125A	1.0 Ω	4.2 Ω
HLB240-480-72	72KW	275A	137A	0.95 Ω	3.8 Ω
HLB240-480-78	78KW	300A	150A	0.90 Ω	3.5 Ω



HLB240-480 Specification:

Type Ref	HLB240-480 Series	
Nominal Voltage	Range 1 : 240V	Range 2 : 480V
Maximum Voltage	Range 1 : 260V	Range 2 : 520V
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 : 120 Cells	Range 2 : 240 Cells
Maximum Number Of Ni-cad Cells	Range 1 : 184 Cells	Range 2 : 368 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	Case Size A Aluminium with swivel castors and carrying handles. Case Size B and C Zintec Steel with swivel castors	
Finish	Light grey RAL7032 textured finish	
Cooling	Force air cooling, horizontal fans	
Environmental Protection Rating	IP21	
Movement	Top Handles, swivel castors and suitable for fork lift	
Operating Temperature	0 – 40 deg C	
Storage Temperature	0 – 80 deg C	

HLB240-480 Case Sizes:

Load Bank Type	Case Size	Length (mm)	Width (mm)	Height 9mm)	Approx. Weight (Kgs)
HLB240-480-13	A	805mm	350mm	560mm	36Kgs
HLB240-480-20	A	805mm	350mm	560mm	40Kgs
HLB240-480-26	B	1050mm	590mm	950mm	100Kgs
HLB240-480-32	B	1050mm	590mm	950mm	105Kgs
HLB240-480-40	B	1050mm	590mm	950mm	110Kgs
HLB240-480-45	C	1010mm	575mm	1125mm	120Kgs
HLB240-480-52	C	1010mm	575mm	1125mm	132Kgs
HLB240-480-58	C	1010mm	575mm	1125mm	140Kgs
HLB240-480-65	C	1010mm	575mm	1125mm	145Kgs
HLB240-480-72	C	1010mm	575mm	1125mm	150Kgs
HLB240-480-78	C	1010mm	575mm	1125mm	155Kgs

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 260V
- Use Range 2 for max test voltages below 520V

STEP 2

- Calculate required minimum ohms = Min volts / test Amps
- Example: 216 volts / 160 amps = 1.35 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: HLB240-480-52 = 1.3 ohms on Range 1 and will provide 166A at 216V

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

