

HLD240-480 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 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 520V
- Safety isolation contactors
- Fan fail protection
- High power
- Portable



Case Size A HLD240-480

The Hillstone HLD240-480 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 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.

HLD240-480 Performance Table:

Load Bank Type	Max Watts	Range 1 Amps At 260V	Range 2 Amps At 520V	Range 1 Minimum Ohms	Range 2 Minimum Ohms
HLD240-480-13	13KW	25A	25A	10.4 Ω	20.80 Ω
HLD240-480-20	20KW	37A	37A	7.03 Ω	14.05 Ω
HLD240-480-26	26KW	50A	50A	5.20 Ω	10.40 Ω
HLD240-480-32	32KW	62A	62A	4.19 Ω	8.39 Ω
HLD240-480-40	40KW	75A	75A	3.47 Ω	6.93 Ω
HLD240-480-45	45KW	87A	87A	2.99 Ω	5.98 Ω
HLD240-480-52	52KW	100A	100A	2.60 Ω	5.20 Ω
HLD240-480-58	58KW	115A	115A	2.26 Ω	4.52 Ω
HLD240-480-65	65KW	125A	125A	2.08 Ω	4.16 Ω
HLD240-480-72	72KW	137A	137A	1.90 Ω	3.79 Ω
HLD240-480-78	78KW	150A	150A	1.73 Ω	3.47 Ω



HLD240-480 Specification:

Type Ref	HLD240-480 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 50Hz (110V optional, 60Hz 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 (Case size A+B), swivel castors and suitable for fork lift	
Operating Temperature	0 – 40 deg C	
Storage Temperature	0 – 80 deg C	

HLD240-480 Case Sizes:

Load Bank Type	Case Size	Length (mm)	Width (mm)	Height 9mm)	Approx. Weight (Kgs)
HLD240-480-13	A	805mm	350mm	560mm	36Kgs
HLD240-480-20	A	805mm	350mm	560mm	40Kgs
HLD240-480-26	B	1050mm	590mm	950mm	100Kgs
HLD240-480-32	B	1050mm	590mm	950mm	105Kgs
HLD240-480-40	B	1050mm	590mm	950mm	110Kgs
HLD240-480-45	C	1010mm	575mm	1125mm	120Kgs
HLD240-480-52	C	1010mm	575mm	1125mm	132Kgs
HLD240-480-58	C	1010mm	575mm	1125mm	140Kgs
HLD240-480-65	C	1010mm	575mm	1125mm	145Kgs
HLD240-480-72	C	1010mm	575mm	1125mm	150Kgs
HLD240-480-78	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 from the result in step 2
- Example: HLD240-480-52 = 2.6 ohms on Range 1 and will provide 83A 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.
- Information in technical literature, quotations or datasheets are intended to be correct at the time of publication.
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Typical Case Size C Unit Illustrated

