

HPBL-A BATTERY_loadbanks

HPBL-A-120-240-16kW

6V-260V

0-200A

HPBL-A-140-280-26kW

6V-280V

0-135A

HPBL-A-240-480-30kW

6V to 520V

0-111A

Features

- Automatic Constant Current Control
- Lead Acid or Ni-cad battery testing
- Battery Range: 12V to 520V DC
- Full Safety package
- Full Alarm package
- Parallel interconnection for higher discharge rates



The **HPBL-A BATTERY_loadbank** range includes 3 designs for portable automatic constant current battery discharge testing.

- **HPBL-A** DC load bank
- **Battery Fuse** connection box
- **BattLife** software app
- **Travel** flight case
- Fully rated 3m cable set



User and Safety Features

- **Automatic constant current** control
- **Alarm** package

- **Manual Handling** package
- **Electrical Safety** package

User features & controls include:-

- Master On / Off control
- Fan cool down period over run at end of discharge
- Parallel connection for up to 3 units

- oLED simplified menu driven operation
- oLED display for Volts, Amps, °C, A/hrs, mm/Hrs
- Force cooled high power resistor elements

Safety features package include:-

- Fan fail auto shut-down
- Emergency stop push button

- Battery Fuse Box
- Compatible insulated connectors for cable & fuse box

Alarm indication package include:-

- High volts
- Over temperature

- Over current
- Fan fail with auto shut down

HPBL-A BATTERY_loadbank rating table

Load Bank Type	Voltage Range 1	Discharge Current	Voltage Range 2	Discharge Current	Voltage Range 3	Discharge Current
HPBL-A-120-240-16kW*	198V-260V	61A	99V-130V	122A	43V-52V	200A
HPBL-A-140-280-26kW*	198V-280V	68A	99V-140V	135A	43V-52V	59A
HPBL-A-240-480-30kW**	396V-520V	55A	198V-260V	111A	99V-130V	55A

For lower battery voltages the available constant current discharge rate will reduce proportionally.

HPBL-A BATTERY_loadbank Range	Automatic Control
User features & controls:-	
Automatic load bank regulation and control of the discharge test	✓
High powered fans using auxiliary mains supply	✓
Onboard data logging to SD card & serial transfer to laptop app	✓
DC load banks are designed using Ni-Chrome Mica resistor technology	✓
Safety package:- Electrical	
Master On / Off control	✓
Emergency stop push button	✓
End of test disconnect on Voltage, Time	✓
Battery isolation from DC rated contactors	✓
Alarm package:- Electrical	
High volts	✓
Reverse polarity	✓
Open circuit voltage	✓
Safety package:- Mechanical	
Lifting Handles	✓
Swivel Castors	✓
Alarm package:- Mechanical	
Over temperature Alarm	✓
Fan fail Alarm	✓
User operation	
<p>To perform automatic constant current discharge testing the operator uses easy to use oLED driven menu screens on the load bank to set the current and the required end of test voltage.</p> <p>The load bank will automatically regulate the discharge current throughout the test.</p>	

Case Sizes

	No of fans	Length	Width	Height	Approx. Weight
Case Size 1	2	780mm	290mm	550mm	26Kgs
Packed Dims		900mm	400mm	800mm	60kgs

Specification

DC Cable Set (compatible with load bank & fuse box)	3 meter length Fitted with M10 solderless lugs to the battery Fitted with safety battery connectors to the load bank	
Construction	Aluminum case design finished in textured & powder coated paint	
Finish	RAL7032 textured finish	
Auxiliary mains	Single phase 220V-240V AC, 50/60Hz	
Switching	Isolation of each load circuit via continuously rated DC contactors	
Minimum Load Step Resolution	0.25A	
Voltage Measurement	6V to 300V DC* 6V to 1000V DC**	Accuracy: ± 0.2%
Measurement Range Current	0 to 999A	Accuracy: ± 0.2%
Measurement Range Capacity	0 to 9,999 A/hrs	Accuracy: ± 1%
Measurement Range Temperature	0 to 100°C	Accuracy: ± 2°C
Cooling	Forced air cooling from horizontal fan power from auxiliary mains	
Environmental Protection Rating	IP21 for operating in a dry ventilated area	
Movement	Lifting handles with swivel castors	
Temperature	Operating: 0 – 50 °C	Storage: 0 – 80 °C

Standards and Quality Assurance

The **HPBL-A BATTERY loadbank** range is manufactured in the UK to the following EU standards and ISO QA procedures:

- Low Voltage Directive 2006/95/EC
- EMC directive 2004/108/EC:
- BSEN61000-6-3 2007 amendments for 2011
- BSEN61000-6-1 2007
- BSEN61000-6-4 2007 amendments for 2011
- Hillstone Products Quality Assurance procedures ISO9001:2015

Notes

1. Information in technical literature, quotations or datasheets are intended to be correct at the time of publication.
2. We reserve the right to make detail changes to specification, components, dimensions or weights at the time of design or manufacture without prior notice.
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BattLife

The **BattLife** software app is a battery maintenance tool for the auditing and maintenance of standby batteries used in DC systems, UPS Systems and Generators.

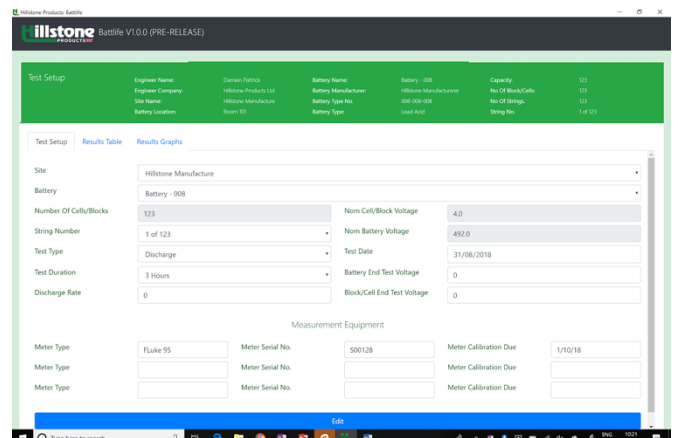
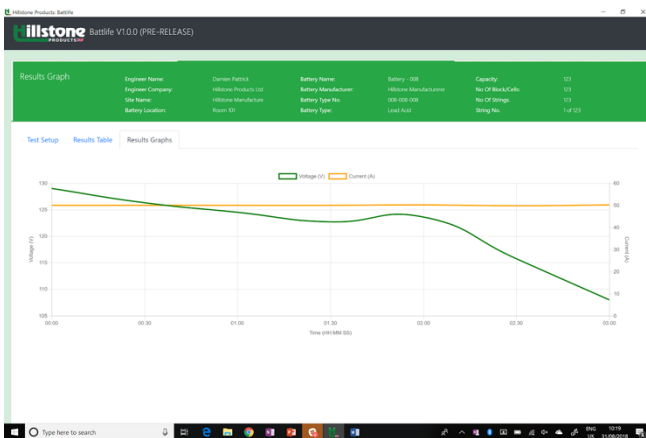
The **BattLife** software app allow engineers to extend the life of the battery and prevent premature failures.

The **BattLife** software app gives true historical **state of health** understanding by integrating load bank capacity testing with conductance / impedance readings.

Annual user subscription enable continuous product development and feature updates

The key **BattLife** modules are:

- Site Manager
- Battery Manager
- Test Manager
- Report Manager



Battery Fuse connection box

The **Battery Fuse Box** provides in line fuse protection for both the +Ve & -Ve cables between the battery & the load bank. Insulated panel mounted sockets allow safe cable connections.

