

BLU-D

Battery dischargers



BLU1350D

Up to 1350 V DC, 100 A and 40 kW, with a 7-inch touch screen

BLU-D

Battery capacity tester and battery discharger

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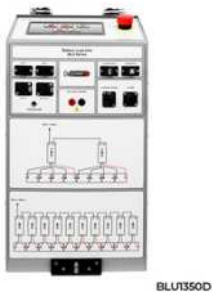
C/ María Barbeito, 14
27003, Lugo, Spain

✉ Contact

T [+34] 982 20 99 20
info@amperis.com | www.amperis.com

Capacity measurement and full discharge of any battery string.

Product overview



Front panel: 7-inch touch screen and measuring terminals



Rear panel: power connections, communications and emergency stop

Any bank, up to 1350 V DC

The series handles lead-acid, lithium-ion, nickel-cadmium or other chemistries up to 1350 V DC, and performs the capacity test according to IEEE 450, IEEE 1188, IEEE 1106 and IEC 60896. Voltage, current, power, capacity and elapsed time are followed in real time on the 7-inch touch screen.

Four discharge modes plus profiles

Discharge at constant current, power, resistance or voltage, plus I, P and R load profiles simulating real load variations. With an external DC clamp the battery can be tested without disconnecting it from its load.

Main features

- Two models: BLU1100D (up to 1100 V DC) and BLU1350D (up to 1350 V DC).
- Discharge current up to 100 A, adjustable with 0.1 A resolution.
- Maximum power of 40 kW over a wide voltage range.
- Full discharge down to 0 V with the external zero-voltage discharge module.
- Preset-voltage mode to discharge lithium before transport.
- Up to 10 same-model units in parallel (master-slave).
- Remote stop via dry or wet contact and test resume after a power cut.



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Applications and software



BLU1350D

The unit, in a portable housing with handles and a wheeled transport case

Applications

- Capacity measurement of substation, industrial, UPS and EV banks.
- Full discharge down to 0 V before recycling lithium cells.
- Discharge to a preselected voltage before transport.
- Cell voltage supervision during the test, with the cell supervision system.
- Discharge process with ambient and cell temperature control.

PC software for control and analysis

The included PC software controls and supervises the test from a computer over USB, presents the parameters numerically and graphically and generates reports in XLS, PDF, Word or RTF, with configurable alarms for cell voltage, string voltage, capacity and time.

Two models, one platform

The BLU1100D and BLU1350D share features and accessories; they differ in the voltage range. Both discharge through minimum resistance below 5 V and, with the zero-voltage module, reach 0 V at constant current.



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BLU-D — MEASUREMENT DATA

Internal current measurement	0 to 200 A DC; 0.1 A resolution
Current display range	0 to 2999.9 A DC (with external clamp)
Current accuracy	±0.5% of reading ±0.1 A
Internal voltage measurement	0 to 1100 V DC (BLU1100D); 0 to 1350 V DC (BLU1350D); 0.1 V resolution
Voltage accuracy	±0.5% of reading ±0.1 V
Capacity	0 to 9999.9 Ah; 0.1 Ah resolution
Time measurement	±0.1% of reading ±1 digit
Current probe input	0 to 1 V DC; impedance > 1 MΩ
Current clamp	30/300 A (10 mV/A and 1 mV/A); 1000 A clamp on request

Specifications valid at +25 °C with the recommended accessories.
The manufacturer reserves the right to change the specifications without prior notice.



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BLU-D – TECHNICAL SPECIFICATIONS

Model	BLU1100D	BLU1350D
Voltage measurement range	0 – 1100 V DC	0 – 1350 V DC
Battery voltage (load section)	2.5 – 1100 V DC	2.5 – 1350 V DC
Maximum discharge power	40 kW (800 – 1100 V DC)	40 kW (800 – 1350 V DC)
Discharge current	Up to 100 A; 0.1 A resolution	Up to 100 A; 0.1 A resolution
Discharge modes	Constant I, P, R and U; I, P and R profiles	Constant I, P, R and U; I, P and R profiles
Parallel operation	Up to 10 same-model units	Up to 10 same-model units
Mains supply	90 – 264 V AC, 50/60 Hz, single-phase	90 – 264 V AC, 50/60 Hz, single-phase
Communication	USB; optional RS232 and Ethernet	USB; optional RS232 and Ethernet
Display	7-inch colour touch screen	7-inch colour touch screen
Operating temperature	0 to +50 °C	0 to +50 °C
Protection	IP20; thermal, overload and emergency stop	IP20; thermal, overload and emergency stop
Dimensions and weight	601 × 287 × 566 mm; 30.0 kg	601 × 287 × 566 mm; 30.0 kg

Applicable test standards: IEEE 450-2010, IEEE 1188-2005, IEEE 1106-2015, IEC 60896-11/21.
Storage and transport temperature: -40 to +70 °C; relative humidity up to 95%, non-condensing.



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