

AMPERIS XD

Battery charging and maintenance equipment



Constant-current capacity tests up to 20 kW and 200 A

Serie XD

Battery discharger and analyzer

amperis

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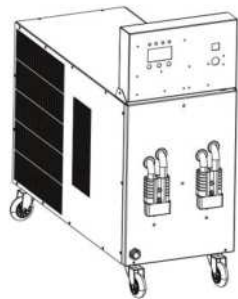
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Programmable discharge for capacity testing of lead-acid, lithium and sodium-ion batteries.

Product overview



Portable unit with adjustable panel



Technical outline of the cabinet

Objective data on every battery

The AMPERIS XD is a programmable battery discharger built around an active electronic load: the discharge current stays constant from the first to the last second, regardless of battery voltage. It performs capacity tests and performance analyses on batteries of 12-96 V DC (24-220 V DC in the MV version) with up to 200 A and 20 kW of discharge power.

From test to certificate

During the test the system records the discharge curve and calculates the ampere-hours actually delivered; every test is saved in the integrated datalogger and exported by USB to generate professional reports. The test stops automatically at the programmed cut-off voltage, with constant thermal monitoring of the battery under test.

Main features

- Lead-acid (vented, gel, AGM, TPPL), lithium (LFP, NMC, LTO), Na-ion and supercapacitors.
- Customised profiles that simulate real duty cycles.
- Parallel connection of several units for very high capacities.
- Forced cooling and protection against overheating and reverse polarity.
- Adjustable control panel with fast programming.
- Single-phase supply: 230 V or 85-135 V AC.



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Applications and configurations

Applications

- Capacity tests compliant with international standards.
- Data-driven predictive maintenance of battery fleets.
- Multi-brand service centres and test laboratories.
- Charge-discharge cycling paired with an XMV charger (XD-Combo version).

Cycler configuration

Paired with the AMPERIS XMV charger, the XD-Combo version works as an automatic battery cycler for research, validation and regeneration processes; a PC software application completes the system for advanced data analysis.



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AMPERIS XD – TECHNICAL SPECIFICATIONS

SPECIFICATIONS

Model	XD200/12.US	XD200/12.EU	XD100/12
Maximum DC power	20 kW	20 kW	20 kW
Nominal battery voltage	12-135 V DC	12-135 V DC	12-180 V DC
DC output voltage range	10-140 V DC	10-140 V DC	10-200 V DC
Max DC current	200 A	200 A	100 A
DC connectors	Battery port, charger port	Battery port, charger port	Battery port, charger port
AC input voltage	1×85-135 V AC	1×230 V AC	1×230 V AC
AC input power	800 W	800 W	800 W
Cabinet type	TD	TD	TD
Safety standards	UL 1564 4th Edition 2015; CSA C22.2 No. 107.2-01 R2016; NRTL: QPS, file LR1649	IEC 60335-1:2010; EN IEC 61000-6-2:2019; EN 61000-6-4:2007; EN 61000-6-4:2007/A1:2011; 2011/65/EU RoHS	IEC 60335-1:2010; EN IEC 61000-6-2:2019; EN 61000-6-4:2007; EN 61000-6-4:2007/A1:2011; 2011/65/EU RoHS

Cabinet type TD. Data per current AMPERIS catalogue, cross-checked with the manufacturer's specifications.

DIMENSIONS

Width	335 mm
Depth	690 mm
Height	530 (756 with raised keyboard) mm



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