

BDCS

Battery dischargers



Two battery packs discharged at once, inside a 10-foot container

BDCS

Battery discharge container system

amperis

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Safe and efficient discharge of battery packs before recycling.

Product overview



Container interior: two-level rack and discharge units

Residual energy, outside the workshop

The BDCS gathers in a 10-foot shipping container everything needed to extract the residual energy from battery packs before recycling. The process runs outdoors, away from the working areas, and the whole system is moved like any standard container.

Two simultaneous discharge units

The two-level rack, with 1325×1100 mm shelves and a 1000 kg loading capacity, holds two packs discharged at the same time by two BLU700C units of up to 260 A and 42.0 kW each, governed by the central control.

Main features

- 10-foot container: $2991 \times 2438 \times 2591$ mm, about 900 kg.
- Industrial computer with a 15-inch display.
- Two thermal cameras with automatic temperature shutdown.
- Gas detection sensor connected to the PLC.
- Two alarm towers with visual and audible signalling.
- Integrated ventilation to dissipate the discharge heat.



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Safety and control



The complete system, ready to operate outdoors

A PLC that supervises everything

The central control gathers the inputs from the industrial computer, the thermal cameras, the gas sensor and the emergency stop button, and halts the discharge whenever necessary, triggering the visual and audible alarms.

Thermal monitoring with automatic stop

The operator sets the temperature to be monitored; if the cameras measure a higher value, the test stops automatically. The feed from both cameras is followed live on the 15-inch display.

Applications

- Discharging battery packs before recycling.
- End of life of electric vehicle and stationary batteries.
- Documented processes at recycling plants and waste managers.
- Preparing batteries for safe transport or storage.



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BDCS – MEASUREMENT DATA

Voltage measurement	0 to 705 V DC
Voltage accuracy	±0.5% of reading ±0.1 V
Current measurement	0 to 300 A DC
Current accuracy	±0.5% of reading ±0.2 A
Maximum discharge current	260 A per BLU700C unit
Maximum discharge power	42.0 kW per BLU700C unit
System consumption	About 3500 W peak
Supervision	Two thermal cameras and gas sensor, with automatic shutdown

Ranges and accuracies of the BLU700C unit; specifications valid at +25 °C.
The manufacturer reserves the right to change the specifications without prior notice.



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BDCS — TECHNICAL SPECIFICATIONS

Type	Battery discharge system in a 10-foot container
Container dimensions	2991 × 2438 × 2591 mm
Total weight	About 900 kg
Battery rack	2 levels; 1325 × 1100 mm shelves; 1000 kg loading capacity
Discharge units	2 × BLU700C, simultaneous, governed by the central control
Control	Central PLC; industrial computer with 15-inch display
Safety	Thermal cameras, gas sensor, emergency stop, alarm towers
Ventilation	Integrated, to dissipate the process heat
Operating temperature	-20 to +40 °C
Storage and transport temperature	-20 to +70 °C
Relative humidity	Up to 95%, non-condensing
Adaptation	Number and power of the units adjustable to the customer



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