ENS-1210DC Battery Activator

Product overview

For charging, discharging and activation maintenance of 2 V, 6 V and 12 V batteries. Records voltage, current, time and capacity; supports constant-current or constant-power discharge, automatic charging and discharge-to-charge activation.

Automatic testing • Data recording • Report analysis



Operating ratings

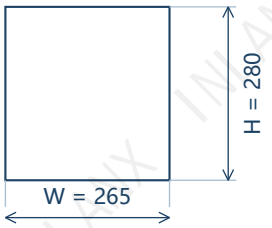
Item	Specification
Charge/discharge voltage classes	2 V / 6 V / 12 V batteries
Charge/discharge current	2 V: 0-100 A; 6 V: 0-50 A; 12 V: 0-50 A
Dimensions (L × W × H)	455 × 265 × 280 mm
Main-unit mass	Approx. 12.4 kg

Overall dimensions • mm

Side envelope



Front envelope



Overall envelope only; not an installation/manufacturing drawing. Dimensions from the model manual.

Dimensions and mass from the model manual. Diagram shows the overall envelope, not an installation drawing. Observe the voltage, current and stated power limits.

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Technical specifications

Item	Specification
AC supply	AC 230 V ±10%, 40-60 Hz
Operation	Touchscreen
Display	7-inch TFT LCD, resistive touchscreen, 1024×600
Data communication	1×RS485
Internal storage	128 Mbit
Voltage measurement accuracy	±0.5%FS + 0.1 V
Current measurement accuracy	±1%FS + 0.1 A
Group voltage display accuracy	0.1 V
Group current display accuracy	0.1 A
Discharge current control accuracy	±1%FS

Protection and safety tests

Item	Specification
Main-unit protection	Shutdown on overtemperature, overcurrent or loss of current control
Reverse-polarity protection	Supported
Abnormal-condition protection	Mains-cable power loss and main-cable disconnection/power loss
Overtemperature thresholds	Resistor enclosure 85°C; heatsink 100°C
Alarm	LCD indication and buzzer
Dielectric withstand test	2200 VDC, 1 min. AC input-to-chassis; source lists both DC input-to-output and DC input-to-chassis, pending confirmation.

Operating and storage environment

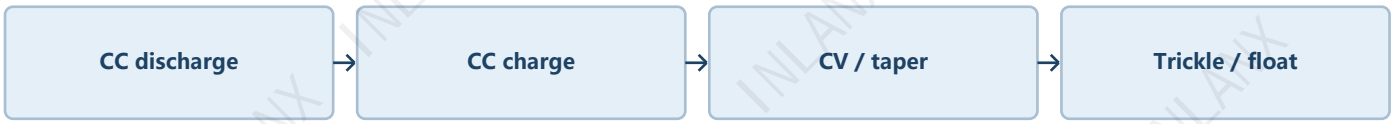
Item	Specification
Cooling	Forced-air cooling
Operating temperature	-5 to +50°C
Storage temperature	-40 to +70°C
Relative humidity	0-90% RH (40±2°C)
Rated altitude	2000 m

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Core functions

No.	Description
1	Internal nickel-chromium load: low resistance, high power density, ±0.001 Ω resistance accuracy, low temperature coefficient and surge resistance.
2	Dynamic constant-current discharge: real-time cell-voltage/threshold monitoring and intelligent conversion between discharge capacity and hour rate for capacity assessment.
3	Discharge modes: offline constant current or constant power, or constant-current discharge in parallel with user equipment. Set voltage, current, time and capacity; parameters can be edited during testing.
4	Termination and recording: stops on group/cell voltage limits, time/capacity limits or manual command, and stores process data.
5	Three-stage charging: constant current → constant voltage with tapering current → trickle/float. Set parameters to suit the battery.
6	Activation: automatically changes from discharge to charge for battery activation and maintenance.
7	Touch operation: 7-inch high-brightness LCD, 1024×600 resolution, with direct on-screen operation.
8	Cell analysis: cell-voltage bar charts and tables, with highest- and lowest-voltage cell identification.
9	Historical curves: reviews battery-group voltage and current curves.
10	Test templates: six built-in templates, expandable, editable and recallable.
11	Data management: USB-drive export, PC software analysis and report generation.

Activation sequence



Redrawn from the manual functional description; not a field wiring diagram.