Battery Discharge Tester

ENS-3018D

Product Introduction

ENS-3018D Battery Discharge Tester is a test equipment integrating constant current discharge, intelligent charging and charging and discharging cycles of batteries. It is used for regular battery pack inspection and regeneration and activation of backward batteries. It is used in telecommunication, base station, and electric power sectors, and suitable for testing and cycling activation of various types of traction battery packs such as forklifts, golf carts and trains.

Product Features

- The test voltage range is wide, covering the 0-300V voltage range battery pack discharge test, the maximum discharge current reaches 240A, one machine covers 3 voltage levels, and it can meet the battery pack test of multiple voltage levels (48V/127V/220V).
- **The product uses customized nickel-chromium alloy resistors as the load source.** Low resistance value; can achieve a larger current discharge, customized appearance makes the power density higher. High precision; accuracy can be controlled within ±0.001Ω, as a load source to make the discharge process more stable. Low temperature coefficient; little influence by temperature coefficient, strong environmental adaptability. Resistant to current impact; strong current resistance, can quickly respond to large current impacts, and the discharge process is more reliable.
- **Smart chip control**. Intelligent control of the discharge process, automatic adjustment following the drop of battery voltage to ensure constant current discharge. The voltage of a single battery is collected in real time and displayed in a curve manner, which is convenient for evaluation and analysis. At the same time, it intelligently analyzes the battery voltage status and makes an evaluation. Intelligently calculate the conversion between the discharge capacity and the discharge hour rate to achieve the best evaluation effect of the battery capacity status.

A variety of threshold thresholds can be set, intelligent judgment.

- **7-inch large LCD touch screen:** It adopts a 7-inch large-size bright touch screen with a resolution of 1024x600, which can be clicked directly on the screen. It is simple and clear, with strong anti-interference ability.
- **LORA wireless monomer monitoring module:** compatible with 2V/4V/6V/12V single cell monitoring. Each wireless monitoring module can monitor 6 cells at the same time. Compared with the method of monitoring the voltage of one cell per module, the number of modules that need to be configured is only 1/6 (only 4 monitoring modules for 48V), so that the wiring for modules is easier than the old method.
- **Automatic discharge current calculation function**: built-in discharge coefficients for each hour rate, which can automatically calculate the discharge current that needs to be set according to the nominal capacity of the battery under test and the required discharge rate.
- During the process of battery charging and discharging, the voltage of each cell is detected and displayed in real time: the track of each cell voltage histogram is displayed on the host screen, and the data table is supported. It can also automatically display the cell with the highest

and lowest voltage in real time to help you quickly analyze the trend of individual changes.

- **Charge&Discharge curve view**: The voltage and current curves of the battery pack during the charge&discharge process can be reviewed.
- **Data transfer:** The host is configured with U disk for data transfer, and the data analysis software can analyze the data and support report generation.

Technical Specifications

Discharge voltage range	10-300V
Discharge current range	Range 1:10-20V Current: 0-40A continuously adjustable Range 2:20-40V Current: 0-80A continuously adjustable Range 3:40-60V Current: 0-150A continuously adjustable Range 4:60- 240V Current: 0-100A continuously adjustable Range 5:240- 3000V Current: 0-60A

	continuously adjustable
Power Input-AC	Single-phase AC 220V, the frequency range is 40-60Hz.
Battery Input-DC	Input voltage 10-300Vdc
Operation mode	Touch screen
Display	7 inch TFT LCD screen, resistive touch screen, resolution 1024x600
Communication	RS485x1
Internal data storage	128MBit
Voltage measurement accuracy	±0.5%FS+0.1V Max.
Current measurement accuracy	±1%FS+0.1A
Group voltage display accuracy	0.01V
Group current display accuracy	0.1A
Discharge current control accuracy	±1%FS

Protection	Over temperature, over current, current out of control trigger shutdown protection
Emergency stop	High voltage DC switch 120A
Reverse connection protection	Support
Abnormal protection	Power line power failure protection, main cable power failure protection
Over temperature protection	Resistance box over temperature 85℃; radiator over temperature 100℃
Protection	Over temperature, over current, current out of control trigger shutdown protection
Safety test	
Withstand-voltage test	AC input-chassis: 2200Vdc 1min AC input-chassis
	DC input-output: 2200Vdc 1min DC input-chassis
Working temperature	
Cooling	Forced air cooling
Temperature	Operating temperature range: -5~50℃; storage temperature: -40~70℃
Humidity	Relative Humidity 0~90%（40±2℃）
Altitude	Rated 2000 meters above sea level

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