



BUHLE POWER

Charging current detection of two battery cabinets





Overview

How is Battery 2 charged?

Battery #2 is charged with the standard constant-current constant-voltage charging strategy specified by the battery manufacturer, and the charging current in the constant-current charging stage is 1C.

What is battery testing system Arbin BT-ml?

Battery testing system Arbin BT-ML is used to charge and discharge the battery and record the battery voltage and current data during charging and discharging. The output voltage range is 2-60 V and the output current range is 0-50A. The current range is 50A/10A/1A, and the full-scale accuracy of voltage and current control is $\pm 0.05\%$.

Can a lithium plating detection method reduce battery charging time and energy consumption?

Therefore, it can be concluded that the battery charging optimization strategy proposed in this paper can effectively reduce the charging time and charging energy consumption according to the experimental results of two different charging strategies, and the proposed lithium plating detection method can achieve fast lithium plating detection. 5.

What is the charging energy consumption of batteries 2 & 3?

According to the calculation of battery charging current and equivalent DC resistance, the charging energy consumption of batteries #2 and #3 is 1628 J and 1353 J, and the charging time of batteries #2 and #3 is 5076 s and 5759 s. Charging energy consumption and charging time of different charging strategies are shown in Table 7.



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