

How many pulse cycles does a battery module work at 3C Dr?

When the battery pack is discharged at a 3C rate, each inlet of the battery module works for 20 pulse cycles.

Fig. 6. Pulse timing sequence of battery module inlets with different cooling demands at a 3C DR: (a) 0; (b) 25 %; (c) 50 %; (d) 75 %; (e) 100 %. 2.3. Mathematical model

How to calculate inlet fr of battery module with pulsating flow?

During discharging, the average inlet FR of the battery module with pulsating flow can be calculated using Eq. (29). The average inlet FRs of the battery module with BFPs for the output ratios of 0, 25 %, 50 %, 75 % and 100 % are 0 mL/min, 16.5 mL/min, 33 mL/min, 49.5 mL/min and 66 mL/min, respectively.

Is pulsating flow based on a synchronized pulse control method?

Moreover, in open literature, the research on pulsating flow is based on the traditional synchronized pulse control method, that is, the inlet flow rate of single inlet or multiple inlets changes simultaneously according to the pulsating waveforms [30,31].

Is a BFP a good battery module for a 3C Dr?

The superiority of the battery module using BFPs for the 5-in and 5-out scheme at a 3C DR with a flow rate (FR) of 66 mL/min is clarified, as well as the advantages of pulse cooling technology under different output ratios. This provides valuable references for practical application and design of LIBTMSs.

What is a BFP battery module?

Furthermore, under fast discharging conditions (3C), compared with other baffle structures, the battery module with BFPs for the 5-in and 5-out scheme is capable of regulating the battery pack's T_{max} and ΔT_{max} to an optimal range while reducing external power consumption.

What are the opening times for a pulse cycle?

For the output ratios of 0, 25 %, 50 %, 75 % and 100 %, the opening times for the five inlets are 0s, 15s, 30s, 45s and 60s in each pulse cycle, respectively, and the opening interval between adjacent inlets is 12s.

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9 ????· This relationship arises from the fact that external parameters, such as voltage, current, and capacity, which can be directly measured, are fundamentally affected by internal ...

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