

Hello,

This month we cover the Littlefuse battery combiner used in Idle Free eAPUs. The battery combiner closes when the truck engine is running to charge the eAPU batteries and opens when the eAPU is running to preserve the truck batteries for hotel loads and engine starting.



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Below are the parameters which control when the combiner opens and closes.

Combine after 30 seconds IF	Voltage is above 13.5 VDC
Combine after 90 seconds IF	Voltage is above 13.1 VDC
Open after 10 seconds IF	Voltage is below 12.3 VDC
Open after 30 seconds IF	Voltage is below 12.7 VDC
Open immediately (over-voltage protection)	Voltage is above 16.5 VDC
NEVER CLOSE (under-voltage protection)	If voltage is below 9.0 VDC

If for any reason the APU batteries get below 9.0 VDC the battery combiner will not close. If this happens you **MUST** charge the APU batteries with an external charger to get the voltage back to a level where the combiner can operate normally.

For help or questions with any eAPU issues please contact us.

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