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DE – Passivation

This document serves to guide our clients how to prevent FANSO 3.6V Li-SOCL2 ER series battery from being passivated by means of pulsing the battery at a regular time, As well as how to activate the passivated batteries before starting to use them by pre - discharging.

Below is the specific pulse mode applied to different cells to avoid the passivation during storage ;

Battery model	Pulse current	Pulse time	Pulse frequency	loading voltage(1~12months)
ER14250H	5~10mA	3~5 sec.	1time/1~2tweek	1.2K Ω \geq 3.30V (5sec.)
ER14505H	20~30mA	3~5 sec.	1time/1~2tweek	200 Ω \geq 3.10V (5sec.)
ER18505H	20~30mA	3~5 sec.	1time/1~2tweek	200 Ω \geq 3.20V (5sec.)
ER26500H	50~80mA	3~5 sec.	1time/1~2tweek	100 Ω \geq 3.20V (5sec.)
ER34615H	50~100mA	3~5 sec.	1time/1~2tweek	56 Ω \geq 3.00V (5sec.)
ER14505M	50~100mA	3~5 sec.	1time/1~2tweek	33 Ω \geq 3.10V (5sec.)
ER26500M	100~150mA	3~5 sec.	1time/1~2tweek	10 Ω \geq 3.10V (5sec.)
ER34615M	100~200mA	3~5 sec.	1time/1~2tweek	8.2 Ω \geq 3.10V (5sec.)

In general, FANSO recommend not to store the battery for more than 6 months upon receiving them from us, during the storage, the battery should be kept at a ventilated room with temperature less than 23 degree to slow the passivation process and maintain a low self-discharge rate, any higher temperature would expedite the passivation process as well as increase the self - discharge rate.

To activate the passivated batteries, we suggest pre – discharge the batteries with a relatively low continuous loading current for 20 minutes approximately to consume its capacity as little as possible, below is the discharge current or loading resistance applied for each cell in specific ;

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Battery model	loading current	discharge time	Norminal loading voltage
ER14250H	5~10mA	20 minutes	1.2K Ω \geq 3.30V
ER14505H	20~30mA	20 minutes	200 Ω \geq 3.10V
ER18505H	20~30mA	20 minutes	200 Ω \geq 3.20V
ER26500H	50~80mA	20 minutes	100 Ω \geq 3.20V
ER34615H	50~100mA	20 minutes	56 Ω \geq 3.00V
ER14505M	50~100mA	20 minutes	33 Ω \geq 3.10V
ER26500M	100~150mA	20 minutes	33 Ω \geq 3.10V
ER34615M	100~200mA	20 minutes	33 Ω \geq 3.10V