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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 $\Omega$ $\geq$ 3.30V (5sec.)
ER14505H	20~30mA	3~5 sec.	1time/1~2tweek	200 $\Omega$ $\geq$ 3.10V (5sec.)
ER18505H	20~30mA	3~5 sec.	1time/1~2tweek	200 $\Omega$ $\geq$ 3.20V (5sec.)
ER26500H	50~80mA	3~5 sec.	1time/1~2tweek	100 $\Omega$ $\geq$ 3.20V (5sec.)
ER34615H	50~100mA	3~5 sec.	1time/1~2tweek	56 $\Omega$ $\geq$ 3.00V (5sec.)
ER14505M	50~100mA	3~5 sec.	1time/1~2tweek	33 $\Omega$ $\geq$ 3.10V (5sec.)
ER26500M	100~150mA	3~5 sec.	1time/1~2tweek	10 $\Omega$ $\geq$ 3.10V (5sec.)
ER34615M	100~200mA	3~5 sec.	1time/1~2tweek	8.2 $\Omega$ $\geq$ 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 $\Omega$ $\geq$ 3.30V
ER14505H	20~30mA	20 minutes	200 $\Omega$ $\geq$ 3.10V
ER18505H	20~30mA	20 minutes	200 $\Omega$ $\geq$ 3.20V
ER26500H	50~80mA	20 minutes	100 $\Omega$ $\geq$ 3.20V
ER34615H	50~100mA	20 minutes	56 $\Omega$ $\geq$ 3.00V
ER14505M	50~100mA	20 minutes	33 $\Omega$ $\geq$ 3.10V
ER26500M	100~150mA	20 minutes	33 $\Omega$ $\geq$ 3.10V
ER34615M	100~200mA	20 minutes	33 $\Omega$ $\geq$ 3.10V