



## DE-Passivation

This document serves to guide our clients how to activate the passivated batteries.

In general, EVE recommend that battery should be stored in a cool, clean, dry environment, the recommended temperature is  $\leq +30^{\circ}\text{C}$ , relative humidity  $\leq +50\%$  to slow the passivation process and maintain a low self-discharge rate. Any high temperature would expedite the passivation process as well as increase the self-discharge rate.

After 6 months storage, EVE recommend to active the battery. EVE suggest pre – discharge the batteries with a relatively low continuous loading current approximately to consume its capacity as little as possible, below is the discharge current, discharge time and loading resistance applied for each cell in specific:

Battery model	Loading current	Discharge time	Nominal loading voltage
ER14250	20mA	15min	$1\text{k}\Omega \geq 3.3\text{V}$
ER14335	25mA	15min	$330\Omega \geq 3.1\text{V}$
ER14505	30mA	15min	$165\Omega \geq 3.1\text{V}$
ER17505	30mA	20min	$165\Omega \geq 3.2\text{V}$
ER18505	35mA	20min	$165\Omega \geq 3.2\text{V}$
ER26500	60mA	25min	$96\Omega \geq 3.2\text{V}$
ER34615	75mA	40min	$56\Omega \geq 3.0\text{V}$

**Remark:** After the battery cell is activated, stand at room temperature for 12h and test the load voltage.