

## Application Note-

# LUNA2000 Battery Safety & Reliability - Combustible Material

Revision History

Version 1.0 June 24, 2022 4, 2022 – Initial release

<b>Application Solution</b>	LUNA2000 Battery Safety & Reliability - Combustible Material
<b>Solution Configuration</b>	<p>With millions of Battery Systems installed worldwide, precautions should be taken to ensure safety. For a battery system, the safety issues of the battery cell are the main course of battery safety design.</p> <p>This application will focus on the combustible material inside the energy storage system:</p> <p>Question 1 What does LFP mean in batteries?</p> <p>Answer: The lithium iron phosphate battery (LiFePO<sub>4</sub> battery) or LFP battery (lithium ferrophosphate) is a type of lithium-ion battery using lithium iron phosphate (LiFePO<sub>4</sub>) as the cathode material.</p> <p>Question 2 What is the percentage of lithium material weight inside one pack?(lithium weight vs whole pack weight)</p> <p>Answer: The percentage of Lithium is about 1.326% of whole pack weight.</p> <p>Question 3 What is the weight of combustible material (cable &amp; plastic material)?</p> <p>Answer: The volume of combustible material contains: cable 0.4kg and plastic material 1.61kg.</p> <p>Question 4 What is the volume of combustible material (cable &amp; plastic material)?</p> <p>Answer: The volume of combustible material is about 0.0219 m<sup>3</sup></p>
<b>Solution Notes</b>	This material only shows the result from Huawei Lab, please contact your local support for more detail.