

## Test Summary

**Battery:** Modular Battery 44V (HY-Energy STANDARD / HY-Energy FAN / HY-Energy STANDARD PEAK / J1939)

**Manufacturer:** Hyperdrive Innovation Ltd

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Washington, Sunderland, SR5 3NY  
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Internet: <http://www.hyperdriveinnovation.com>  
Email: [info@hyperdriveinnovation.com](mailto:info@hyperdriveinnovation.com)

**Test Laboratory:**

Alphatech Ltd,  
Green house, Homefield Road Ind. Est.  
Haverhill, Suffolk,  
CB9 8QP  
Phone: 01440 714706  
Internet: [www.alphatech.co.uk](http://www.alphatech.co.uk)  
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**Revision:** UN Regulation ST/SG/AC. 10/11/Rev6. Section 38.3

**Description:**

<b>Type</b>	Lithium-Ion Battery
<b>Mass</b>	32kg
<b>Number of Cells</b>	12
<b>Capacity</b>	4.94kWh/111.4Ah
<b>Battery Management System</b>	Yes
<b>Cell Type</b>	NCM 523
<b>Model Numbers</b>	HYP-00-2766, HYP-00-2776, HYP-00-2889, HYP-00-2844, HYP-00-2798, HYP-00-2971
<b>Additional Information</b>	

**Completed Tests:**

<b>Test</b>	<b>Result:</b>	<b>Details Under UN38.3:</b>	<b>Test Report:</b>	<b>Date of Issue:</b>
Test T3:	Pass	Clause 38.3.4.3	103557	14.02.2019
Test T4:	Pass	Clause 38.3.4.4	103557	14.02.2019
Test T5:	Pass	Clause 38.3.4.5	103557	14.02.2019

The part numbers listed in this test summary refer to the same base design with regard to UN 38.3 certification. Part number changes are used within Hyperdrive for internal reference. As such any UN38.3 certification that refers to any of the part number listed is equally applicable to all part numbers.

Date: 09<sup>th</sup> January 2020

D. Sandells  
Chief Technical Officer