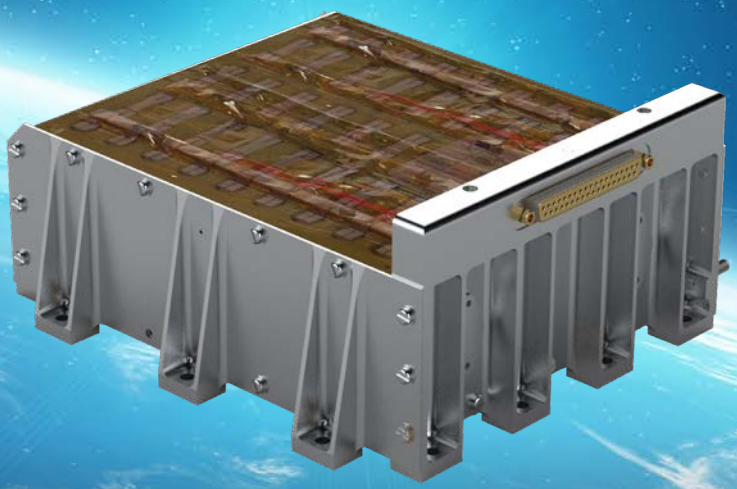
Product Data Sheet

Li-ion Space Battery

ABSL™

CM520 – 8s9p P20 28V 18Ah



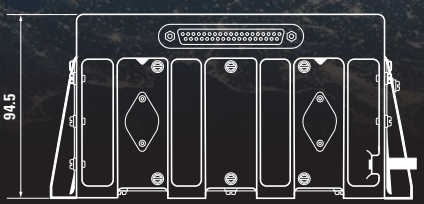
Fully qualified for space applications, this battery has been utilised for a variety of missions in a variety of ESA LEO missions, lunar landers and launch vehicles.

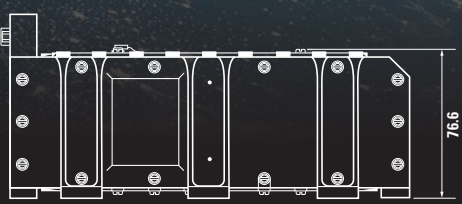
The design can incorporate a single keyed circular or D-type connector and does not require cell balancing electronics, making it easy to store, use and integrate into the spacecraft.

Facts at a Glance

ABSL™ Cell	P20
Topology	8s9p
Voltage Range (V)	33.6 - 24.0
Nameplate Capacity	18 Ah
Energy	532.8 Wh
Footprint	209 x 190 mm
Height	117 mm
Mass (kg measured)	4.3

Celebrating customer success with over 5.5 billion cell hours of in-orbit heritage using ABSL™ Li-ion cell technology





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Qualification

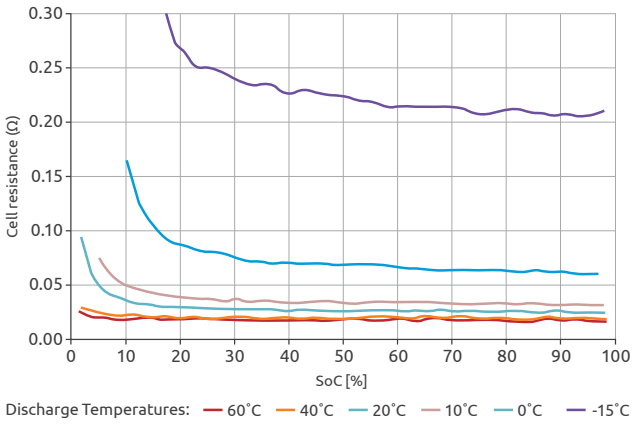
Temperature	
Non-Operating (°C)	**Operating (°C)**
-20 to 60 (Cell Level Qual only)	0 to 40 (Thermal chamber only)

Cell Level Radiation Exposure	
Dosage Mrad	**Effects**
10	<1% decrease in capacity

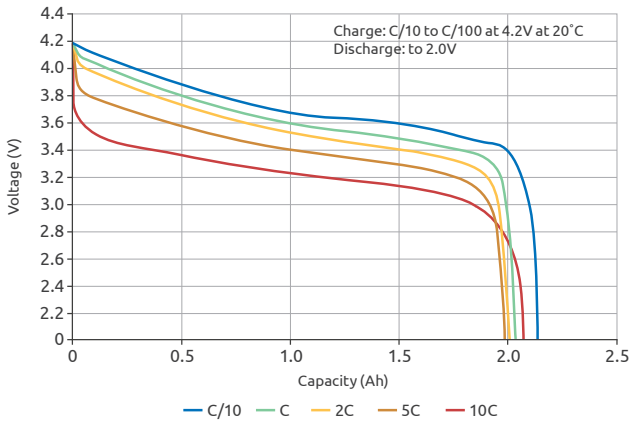
Shock	
Frequency (Hz)	**Input (g)**
100	40
2000	3000
10,000	3000
No of shock (per axis)	3

Random Vibration	
Frequency (Hz)	**Input (g^2/Hz)**
20	0.0913
60	0.273
1000	0.273
2000	0.0686
Overall G_{RMS}	20
Duration	4

Internal Resistance



Discharge



EMEA/APAC-EN-DS-ABSL-CM520-8s9p-0722-Preliminary

Advanced Systems SPACE

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