

ABSL™

CM170 – 4s6p P20 14V 12Ah

Fully qualified for space applications, this battery has been utilised for a variety of nano/micro satellite missions, including a constellation for Internet of Things (IoT).

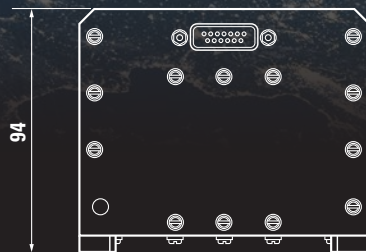
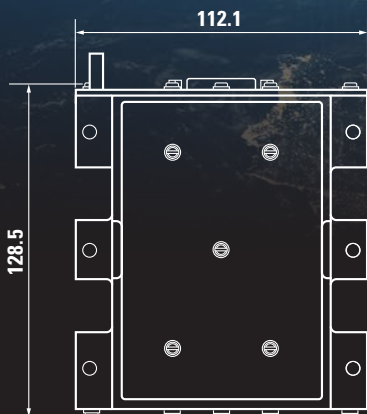
The design incorporates a single D-type connector and does not require cell balancing electronics, making it easy to store, use and integrate into the spacecraft.



Facts at a Glance

ABSL™ Cell	P20
Topology	4s6p
Voltage Range (V)	16.8 - 12.0
Nameplate Capacity	12 Ah
Energy	178 Wh
Footprint	113 x 132 mm
Height	95 mm
Mass (kg measured)	1.6

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



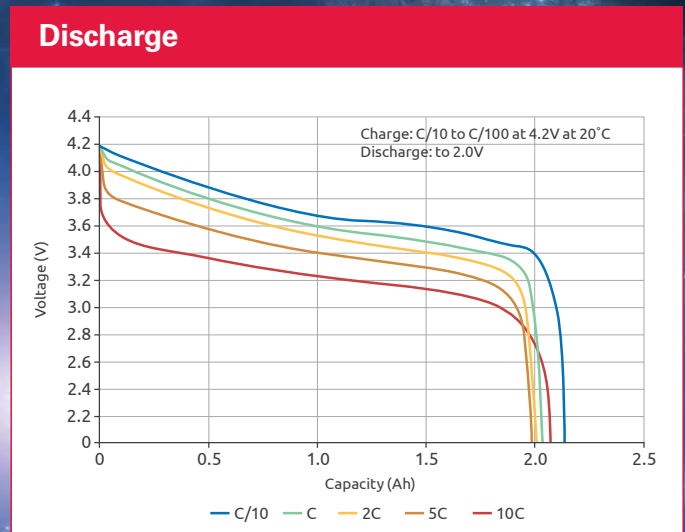
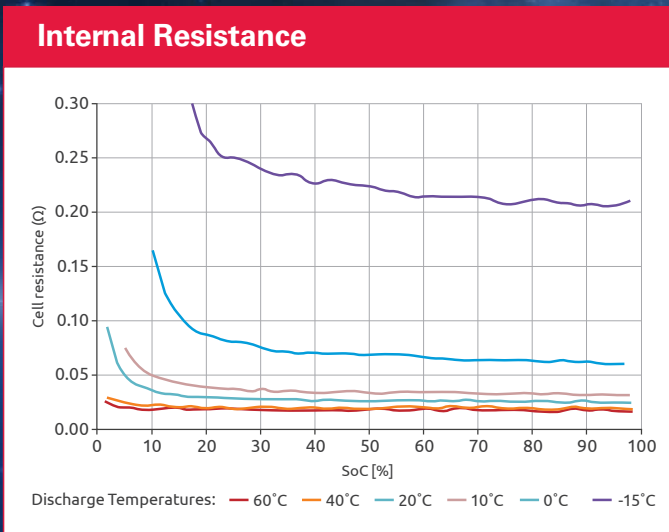
Qualification

Temperature	
Non-Operating (°C)	Operating (°C)
-10 to 50	0 to 40 (Thermal chamber only)

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

Shock	
Frequency (Hz)	Input (g)
100	60
1300	2000
10,000	2000
No of shock (per axis)	3

Random Vibration	
Frequency (Hz)	Input (g ² /Hz)
20	0.2006
50	0.5
800	0.5
2000	0.0805
Overall G _{RMS}	25
Duration	2



EMEA/APAC-EN-DS-ABSL-CM170-4s6p-0722-Preliminary

