

Product Data Sheet

Li-ion Rechargeable Battery ABS L 28s4p 100V 14 Ah

The 28s4p 100V battery is a modified heritage design based off ABS L's signature 8s16p battery. The 28s4p battery shares the same footprint as ABS L's standard 8s16p battery.

The 28s4p 100V battery was designed to provide customers with a small package option for High Voltage applications. Building off the success of ABS L's 8s16p, the 28s4p 100V is ready to support a wide range of missions. ABS L has seen success in LEO, MEO, GEO, Interplanetary and Lunar applications.

This battery does not require cell balancing electronics.

Facts at a Glance

ABS L™ Cell	18650 E35
Configuration	28s4p
Nameplate Capacity	14 Ah
Nameplate Energy	1400 Wh
Maximum Discharge Current (continuous)	3.3 A
Nominal Mass	7.8 kg
Footprint	364 x 203 mm
Height	98 mm
Nominal Voltage	100V
Voltage Range	84 - 117.6V

Leading the industry without failure for over 20 years of continuous in-orbit heritage using ABS L Li-ion battery technology

Qualification

Temperature

Non-Operating	Operating
-20°C to 60°C	0°C to 40°C

Cell Level Radiation Exposure

Dosage	Effects
< 1Mrad	Negligible
Up to 10Mrad	Negligible

Shock

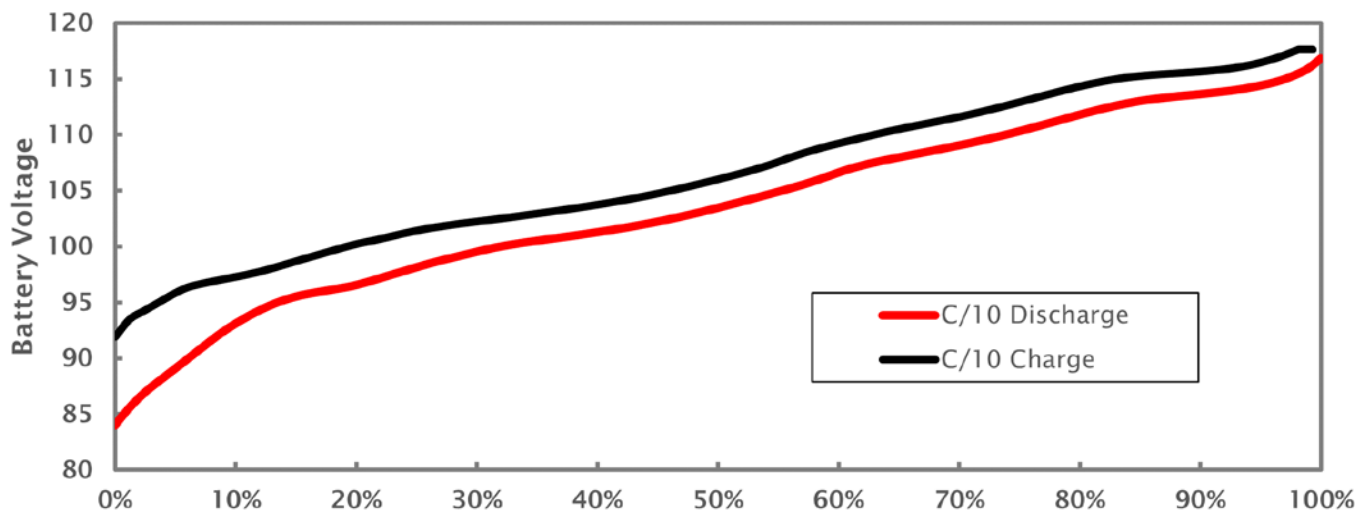
Frequency (Hz)	PF SRS Level Test $\Omega = 10$
100	50 g
1,800	3,000 g
10,000	3,000 g

Random Vibration

Frequency (Hz)	ASD (g^2/Hz)*
20	0.026
50	0.160
800	0.160
2,000	0.026
Overall G_{RMS}	14.100
Duration	2 min/axis

*Notching utilized within profile

20°C Charge and Discharge Voltage Profiles



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