



Facts at a Glance	
ABSL™ Cell	18650 E35
Configuration	8s16p
Nameplate Capacity	56 Ah
Nameplate Energy	1628 Wh
Maximum Discharge Current (continuous)	25 A
Nominal Mass	7.8 kg
Footprint	364 x 203 mm
Height	98 mm
Nominal Voltage	29V
Voltage Range	24 - 33.6V

Product Data Sheet

Li-ion Rechargeable Battery ABSL 8s16p 28V 56Ah

The 8s16p 24Ah battery was originally qualified for the NASA Goddard Space Flight Center. Since qualification, the design has been utilized for a variety of applications including civilian, military and other commercial applications.

With ABSL's high energy density 3.5 Ah cells, the 8s16p battery provides significant energy density with a low mass and small footprint. The 8s16p battery's versatility has made it the preferred battery for many mission profiles. This battery has been sold for missions including LEO, MEO, GEO, Interplanetary and Lunar applications.

This battery does not require cell balancing electronics.

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



Qualification

Temperature

Non-Operating	Operating
-20°C to 60°C	Discharge: -5°C to 40°C
	Charge 0°C to 40°C

Shock

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

Cell Level Radiation Exposure

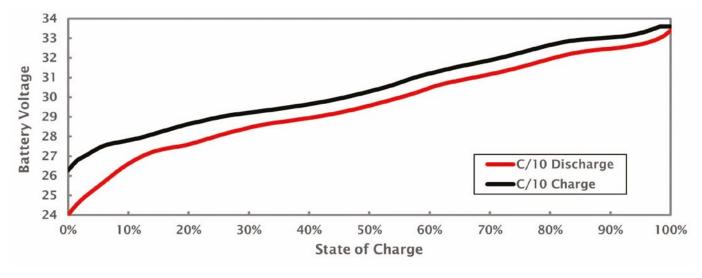
Dosage	Effects
< 1Mrad	Negligible
Up to 10Mrad	Negligible

Random Vibration

Frequency (Hz)	ASD (g²/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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