EnerSys®
Power/Full Solutions

ABSL™

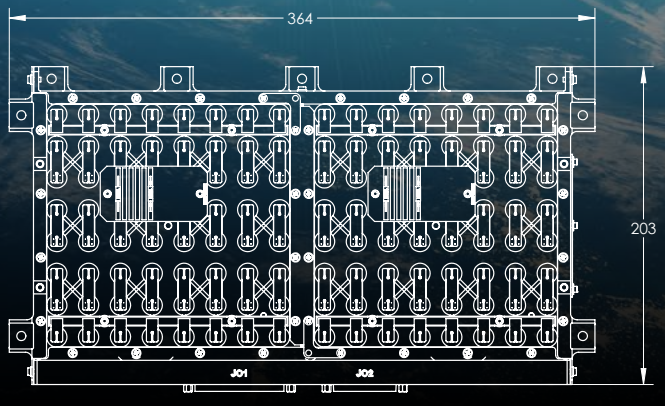
Li-ion Rechargeable Battery
ABSL™ 28s4p 100 V 14 Ah

Leading the industry without failure for over 25 years of continuous in-orbit heritage using ABSL™ Li-ion battery technology.

The ABSL™ 28s4p 100 V battery is a compact, high-voltage battery option designed for critical power delivery in a small, sophisticated package. It is ideal for demanding payloads and high-voltage bus architectures that require low-risk power solutions.

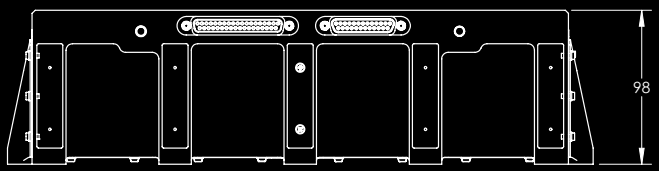
As a modified variant of the signature ABSL 8s16p battery, the ABSL 28s4p 100 V battery retains the same minimal footprint and low mass as the standard ABSL 8s16p battery enabling seamless integration across standardized spacecraft intended to support various mission profiles. The ABSL 28s4p 100 V battery is well-suited for LEO, MEO, GEO, Interplanetary and Lunar applications.

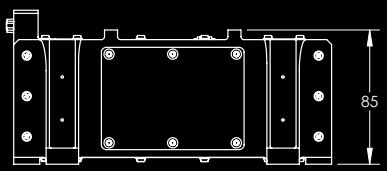
ABSL standard spacecraft batteries uniquely eliminate the need for complex cell balancing electronics by leveraging proprietary and flight proven manufacturing processes pioneered by EnerSys.



Facts at a Glance

ABSL™ 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
Voltage Range	84 - 117.6 V





Visit us at www.enersys.com/space

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Qualification

Temperature	
Non-Operating (°C)	**Operating (°C)**
-20 to 60	0 to 40

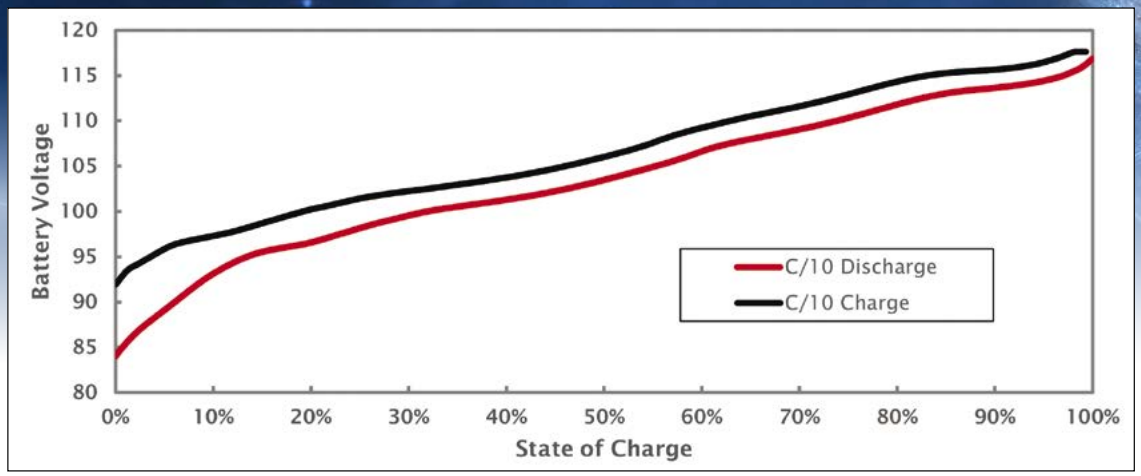
Shock	
Frequency (Hz)	**PF SRS Level Test Q = 10**
100	50 g
1,800	3,000 g
10,000	3,000 g

Cell Level Radiation Exposure	
Dosage Mrad	**Effects**
< 1Mrad	Negligible
Up to 10Mrad	Negligible

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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