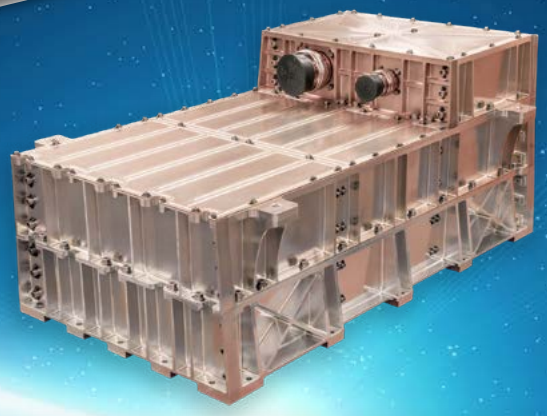
EnerSys®
Power/Full Solutions

ABSL™

Li-ion Rechargeable Battery
ABSL™ 8s72p 28 V 252 Ah

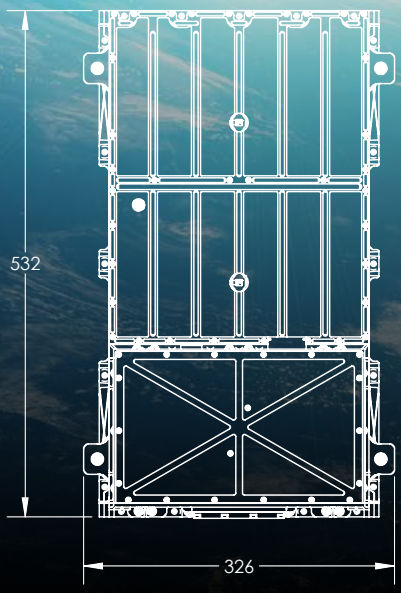


Leading the industry without failure for over 25 years of continuous in-orbit heritage using ABSL™ Li-ion battery technology.

Designed for larger spacecraft and long duration deep space missions, the high capacity ABSL™ 8s72p 252 Ah battery capitalizes on tried and true heritage design philosophy to provide safe and reliable power for next generation applications.

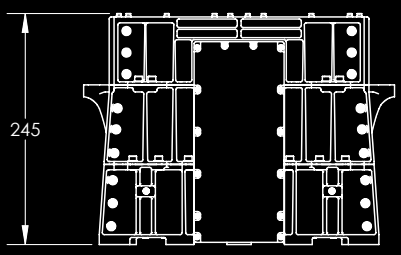
The flight proven 8s72p 252 Ah battery is well-suited to support various applications, from low risk tolerance, long duration missions to the new frontiers of lunar exploration and infrastructure. The ABSL 8s72p design leverages robust E35 3.5Ah to deliver industry leading gravimetric and volumetric energy density on a next generation scale.

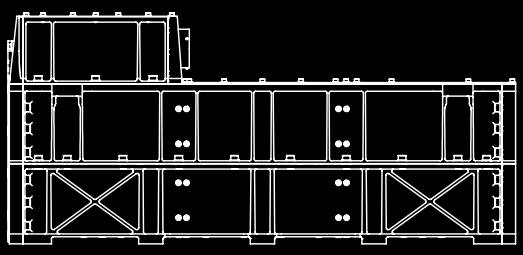
ABSL standard spacecraft batteries uniquely eliminate the need for complex cell balancing electronics by leveraging proprietary and flight proven manufacturing processes pioneered by EnerSys.



Facts at a Glance

ABSL™ Cell	18650 E35
Configuration	8s72p
Nameplate Capacity	252 Ah
Nameplate Energy	7056 Wh
Maximum Discharge Current (continuous)	60 A
Nominal Mass	35.7 kg
Footprint	532 x 326 mm
Height	245 mm
Voltage Range	24 - 33.6 V





Visit us at www.enersys.com/space

Li-ion Rechargeable Battery
ABSL™ 8s72p 28 V 252 Ah

Qualification

Temperature	
Non-Operating (°C)	Operating (°C)
-15 to 40	Discharge: 0 to 30
	Charge: 0 to 30

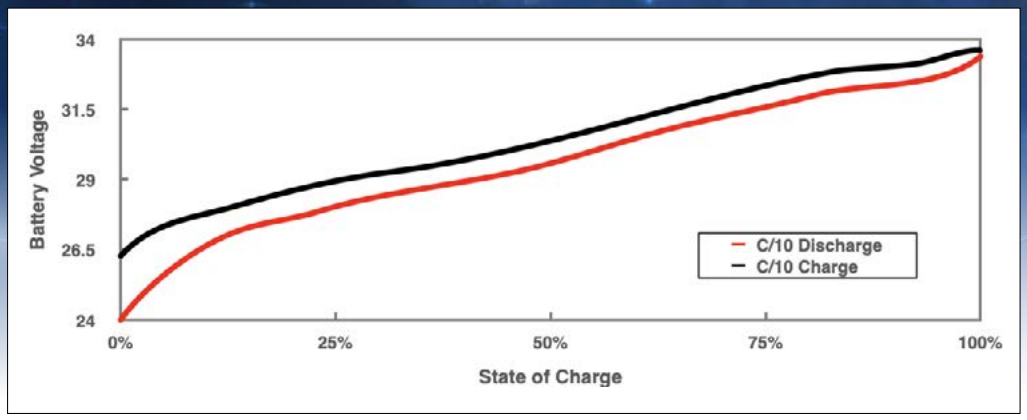
Shock Analysis	
Frequency (Hz)	PF SRS Level Test Q = 10
100	80 g
1,245	1000 g
10,000	1000 g

Cell Level Radiation Exposure	
Dosage	Effects
Up to 10Mrad	Negligible

Random Vibration		
Frequency (Hz)	Qual* ASD (g^2/Hz)	Acceptance ASD (g2/Hz)
20	0.010	0.008
50	0.058	0.049
800	0.058	0.049
2,000	0.010	0.008
Overall G_{RMS}	8.55	7.86
Duration	2 min/axis	1 min/axis

Qualification via Analysis

20°C Charge and Discharge Voltage Profiles



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