

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

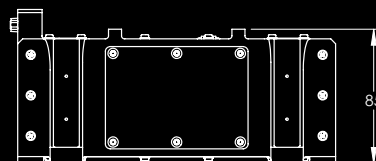
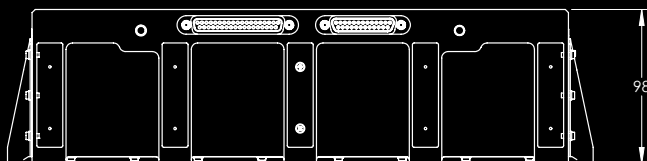
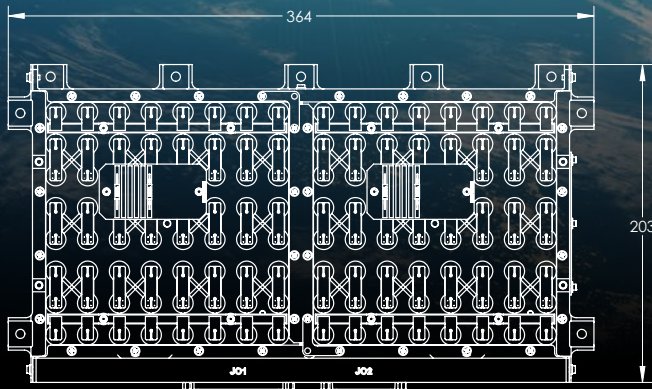


Leading the industry without failure for over 25 years of continuous in-orbit heritage using ABSL™ Li-ion battery technology.

The ABSL™ 8s16p 56 Ah battery was first commercial battery solution by EnerSys to offer the energy-dense E35 3.5 Ah Li-ion 18650 cells. Leveraging the heritage ABSL 8s16p battery design, the current ABSL 8s16p 56 Ah battery provides a significant energy density increase with a low mass and small footprint.

The ABSL 8s16p battery's versatility and reliability has made it the preferred battery for many mission profiles. The ABSL 8s16p battery supports missions across nearly every use case of space including but not limited to 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	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
Voltage Range	24 - 33.6 V

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

### Qualification

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

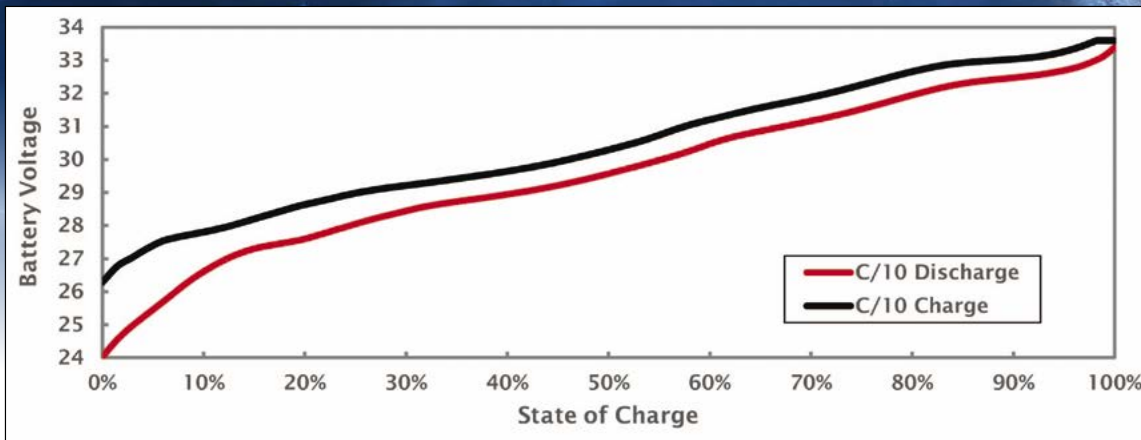
Shock	
Frequency (Hz)	PF SRS Level Test Q = 10
100	50 g
1,800	3,000 g
10,000	3,000 g

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

Random Vibration	
Frequency (Hz)	ASD (g <sup>2</sup> /Hz)*
20	0.026
50	0.160
800	0.160
2,000	0.026
Overall G <sub>RMS</sub>	14.100
Duration	2 min/axis

### 20°C Charge and Discharge Voltage Profiles

\*Notching utilized within profile



These batteries and controlled technical data are classified under the Commerce Control List and are subject to licensing requirements for any export. Additional export restrictions and regulations may apply depending on their end use. It is the responsibility of the purchasing or receiving party to comply with all requirements of export laws, including ensuring that all required export authorizations are in place prior to exportation or re-exportation.

