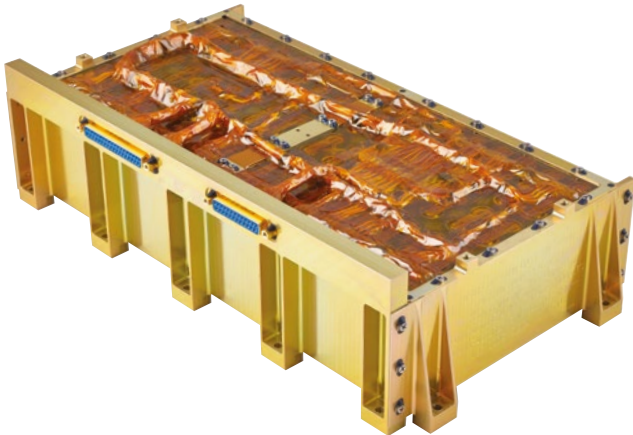


Product Data Sheet

Li-ion Rechargeable Battery ABS L 8s16p 28V 56Ah

The 8s16p 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. This battery does not require cell balancing electronics.



Facts at a Glance

ABS L™ Cell	18650, 3.5Ah
Configuration	8s16p
Nameplate Capacity	56 Ah
Energy	1628 Wh
Maximum Mass	8.5 kg
Nominal Mass	7.8 kg
Footprint	364 x 203 mm
Height	98 mm
Nominal Voltage	28V
Voltage Range	24 - 33.6V

**Celebrating customer success with over 2.5 billion cell hours of in-orbit heritage
using ABS L Li-ion cell technology**



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Qualification and Flight History

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	100 g
1,800	3,000 g
10,000	3,000 g

High Level Sine

Frequency (Hz)	Acceleration Level
5 to 10.4	1" Displacement
10.5 - 100	11.1 g

Cell Level Radiation Exposure

Dosage	Effects
< 1Mrad	Negligible
Up to 10Mrad	~5% of Capacity

All Axes

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	1 min/axis

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.



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