



Product Data Sheet

Li-ion Rechargeable Battery

8s20p 28V 30Ah

The 8s20p 30Ah battery was originally designed and qualified for the SAC-D/Aquarius mission. This mission was a collaboration between NASA and the Space Agency of Argentina. Since qualification, the design has been utilized for a variety of applications including civilian and government. This battery includes a cover and does not require cell balancing electronics.

Facts at a Glance

ABSLS™ Cell	18650HCM
Configuration	8s20p
Nameplate Capacity	30 Ah
Energy	863 Wh
Mass	9.3 kg
Footprint	365 x 248 mm
Height	105 mm
Nominal Voltage	28V
Voltage Range	20 - 33.6V

**Celebrating customer success with over 2.5 billion cell hours of in-orbit heritage
using ABSLS 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 35°C
	Charge: -5°C to 35°C

Shock

Frequency (Hz)	PF SRS Level Test Q = 10
100	47 g
1,250	1,907 g
10,000	1,907 g

Cell Level Radiation Exposure

Dosage	Effects
< 1Mrad	No effects
Up to 18Mrad	~5% of Capacity

Random Vibration

Frequency (Hz)	Qualification*
20	0.040 g ² /Hz
60	0.160 g ² /Hz
200	0.160 g ² /Hz
300	0.080 g ² /Hz
600	0.080 g ² /Hz
2000	0.020 g ² /Hz
Overall G _{RMS}	10.7 G _{RMS}
Duration	75 sec/axis

*Notching utilized within profile

Notable Missions

Mission	Customer	Launch Date
ICON	Orbital ATK	2017

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