

PRODUCT CATALOGUE BROCHURE

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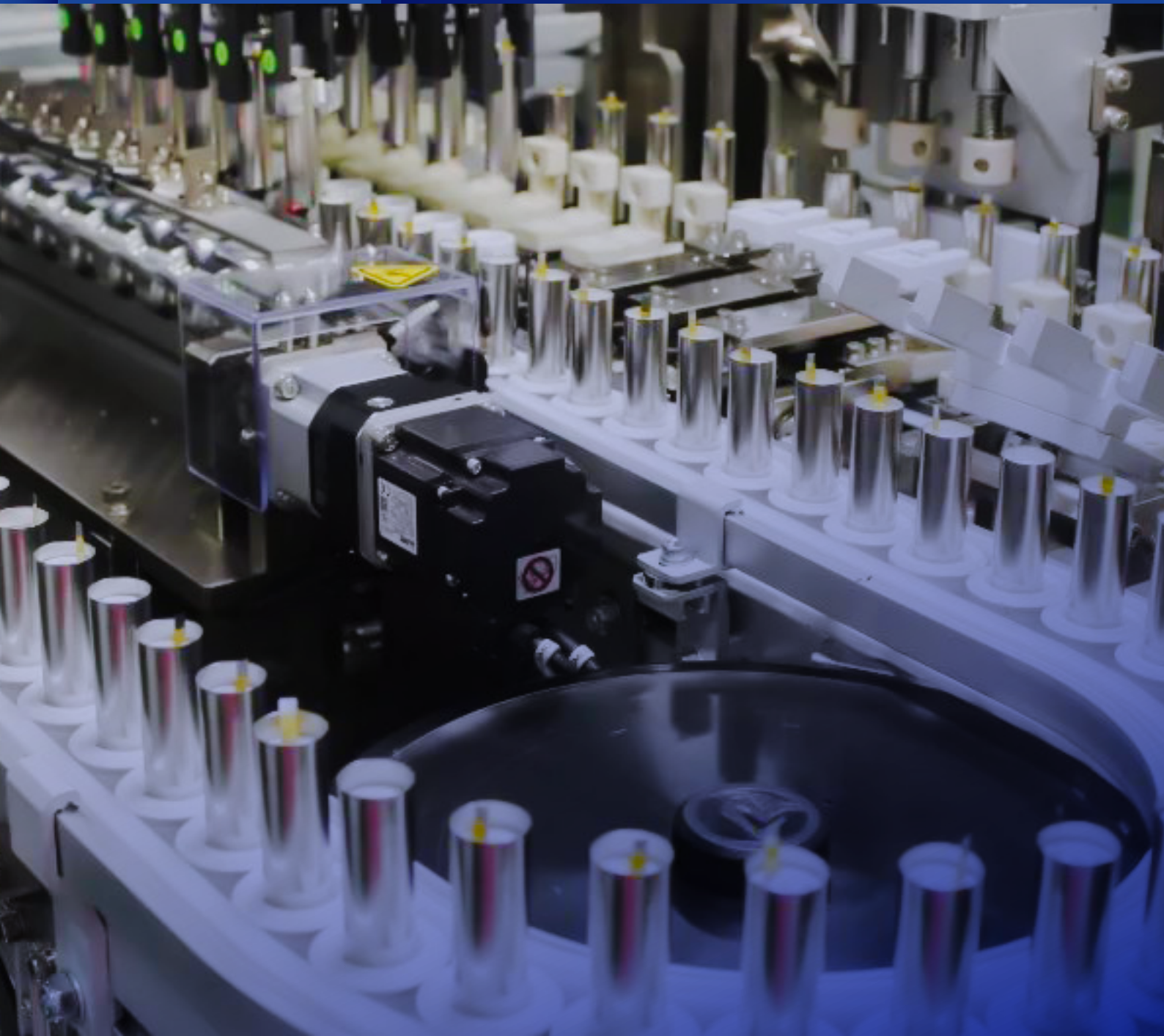
Downhole Batteries For APS Applications

POWERSTABILITY
SAFETY & RELIABLE 

POWERSTABILITY SOLUTIONS

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POWERSTABILITY team was established in 2000, focusing on the research and development of high-performance lithium batteries and its extension products, currently sold to more than 60 countries around the world, with low price and the pursuit of safety and stability characteristics recognized by most customers.

In 2020, POWERSTABILITY team created its official website and focused on Lithium Sulfite (Li-SOCl₂)/Lithium Sulfur (Li-SO₂Cl₂) batteries for extreme environments, launching DD CELLS and related batteries for downhole, MWD, P.I.G applications.

This type of batteries can work at a stable operating temperature of 150°C and have never had a single safety incident, including explosion, combustion, etc. in the past three years. In 2022, POWERSTABILITY set up a well as production center in China, R&D center and oth.



HIGH TEMPERATURE TYPE

S

ER Li-SOCI2 BATTERY



APPLICATION: AEROSPACE | MEDICAL | OCEANOGRAPHIC

DOWNHOLE APPLICATION; MWD/LWDTOOLS; PIPELINE INSPECTION GAUGE; DATA LOGGER; CONTAINER TRACKING; MEDICAL DEVICE; TMPS SENSOR

- Stable high operating voltage and high capacitance
- Low self discharge rate (annual self discharge rate less than 3% at+25°C)
- High energy density, high stable current
- Wide operating temperature range (-40°C--+150°C)
- Excellent environmental application characteristics
- Stainless steel shell (low magnetism resistant to environmental erosion)

Non-rechargeable batteries continue to offer power solutions for applications that don't have ready access to a generating source or limitations in the device being powered.

Long shelf life couple with wide operating temperatures make POWER STABILITY cells well suited for applications such as soldier power, emergency locator transmitters and environment sensors.

In addition, unique requirements for high temperature sterilization tolerances for medical equipment to high vibration/shock designs for aerospace applications are met with POWER STABILITY's chemistry and cell designs.

Model	Chemistry	Cell Size	Open Voltage	Capacity	Max Temp (°C)	Diameter (mm)	Height (mm)
ER10450S	Li/SOCI2	AAA	3.6V	0.6 Ah	+150°C	10.4 mm	45.3 mm
ER14250S	Li/SOCI2	1/2AA	3.6V	0.7 Ah	+150°C	14.5 mm	25.5 mm
ER14505S	Li/SOCI2	AA	3.6V	1.6 Ah	+150°C	14.5 mm	50.5 mm
ER17335S	Li/SOCI2	2/3A	3.6V	1.6 Ah	+150°C	17.5 mm	33.5 mm
ER17505S	Li/SOCI2	A	3.6V	3.0 Ah	+150°C	17.5 mm	50.5 mm
ER17100S	Li/SOCI2	--	3.6V	5.5 Ah	+150°C	17.5 mm	100.5 mm
ER18505S	Li/SOCI2	--	3.6V	3.2 Ah	+150°C	18.7 mm	50.5 mm
ER20100S	Li/SOCI2	--	3.6V	9.0 Ah	+150°C	20.7 mm	101.6 mm
ER26500S	Li/SOCI2	C	3.6V	5.5 Ah	+150°C	26.2 mm	50.5 mm
ER34615S	Li/SOCI2	D	3.6V	13.0 Ah	+150°C	34.5 mm	61.5 mm
ER261020S	Li/SOCI2	CC	3.6V	13.0 Ah	+150°C	26.2 mm	102.0 mm
ER321260S	Li/SOCI2	DD	3.6V	28.0 Ah	+150°C	32.4 mm	126.0 mm

ENERGY TYPE



ER Li-SOCI2 BATTERY



APPLICATION: INTELLIGENT INSTRUMENTATION | WIRELESS ALARM SYSTEM | REMOTE TRACKING AND MONITORING SYSTEM
 AUTOMATION ELECTRONICS; ELECTRONIC TOLL COLLECTION SYSTEM; AUTOMOTIVE ELECTRONICS; PROFESSIONAL ELECTRONICS

- Stable high operating voltage
- Long storage life wide operating temperature range
- Non combustible electrolyte
- Low self discharge rate (stored at +25 °C with an annual self discharge rate below 1%)
- Gas tight glass sealed metal outer cover
- Stainless steel casing and electrode cap (low magnetic characteristics)

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Model	Chemistry	Cell Size	Open Voltage	Capacity	Max Temp (°C)	Diameter (mm)	Height (mm)
ER14250H	lithium thionyl chloride	1/2AA	3.6V	1.2 Ah	+85°C	14.5 mm	25.4 mm
ER14335H	lithium thionyl chloride	2/3AA	3.6V	1.65 Ah	+85°C	14.5 mm	33.5 mm
ER14505H	lithium thionyl chloride	AA	3.6V	2.7 Ah	+85°C	14.5 mm	50.5 mm
ER17335H	lithium thionyl chloride	A	3.6V	2.2 Ah	+85°C	17.0 mm	33.8 mm
ER17505H	lithium thionyl chloride	A	3.6V	3.5 Ah	+85°C	17.5 mm	50.5 mm
ER18505H	lithium thionyl chloride	---	3.6V	4.0 Ah	+85°C	18.5 mm	50.5 mm
ER26500H	lithium thionyl chloride	C	3.6V	9.0 Ah	+85°C	26.2 mm	50.5 mm
ER34615H	lithium thionyl chloride	D	3.6V	19.0 Ah	+85°C	34.2 mm	61.5 mm

POWER TYPE



ER Li-SOCI2 BATTERY









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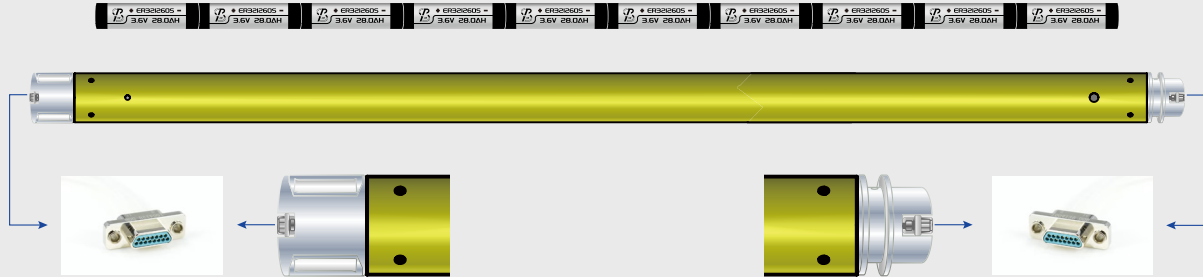
Model	Chemistry	Cell Size	Open Voltage	Capacity	Max Temp (°C)	Diameter (mm)	Height (mm)
 ER14250M	lithium thionyl chloride	1/2AA	3.6V	1.0 Ah	+85°C	14.5 mm	25.4 mm
 ER14335M	lithium thionyl chloride	2/3AA	3.6V	1.3 Ah	+85°C	14.5 mm	33.5 mm
 ER14505M	lithium thionyl chloride	AA	3.6V	2.2 Ah	+85°C	14.5 mm	50.5 mm
 ER18505M	lithium thionyl chloride	---	3.6V	3.2 Ah	+85°C	18.5 mm	50.5 mm
 ER26500M	lithium thionyl chloride	C	3.6V	6.5 Ah	+85°C	26.2 mm	50.5 mm
 ER34615M	lithium thionyl chloride	D	3.6V	14.5 Ah	+85°C	34.0 mm	61.5 mm

HIGH TEMPERATURE BATTERY PACK

ER Li-SOCI2 BATTERY

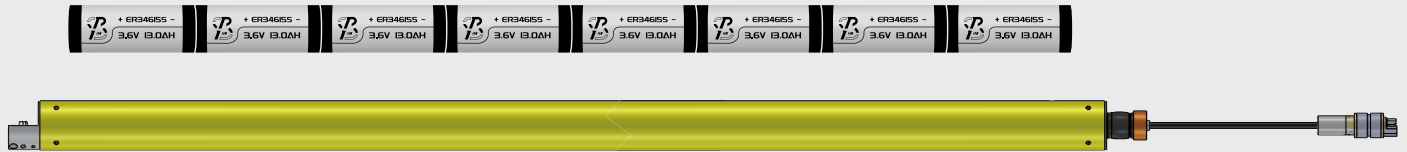
36V 28AH
PSY321260S

MWD



29V 13AH
PSY34615S



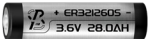
MWD



14V 9.0AH
PSY20100S

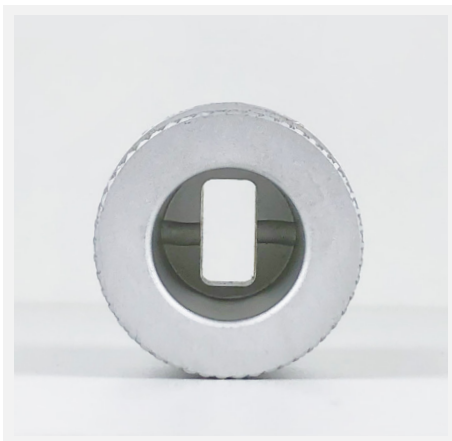
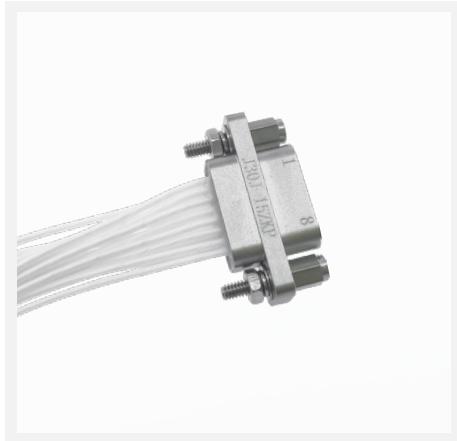
APS



Model	Chemistry	Cell Size	Open Voltage	Capacity	Max Temp (°C)	Diameter (mm)	Height (mm)
 ER20100S	Li/SOCI2	--	3.6V	9.0 Ah	+150°C	20.7 mm	101.6 mm
 ER34615S	Li/SOCI2	D	3.6V	13.0 Ah	+150°C	34.5 mm	61.5 mm
 ER321260S	Li/SOCI2	DD	3.6V	28.0 Ah	+150°C	32.4 mm	126.0 mm

HIGH TEMPERATURE BATTERY PACK

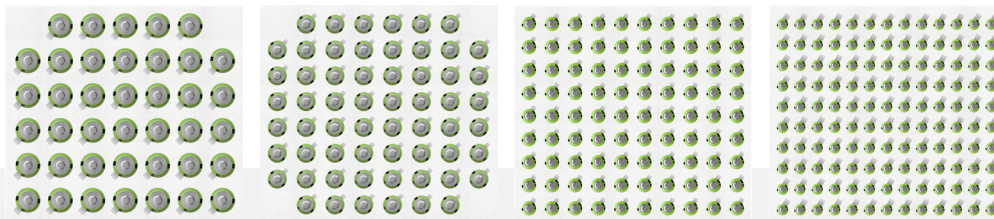
ACCESSORY



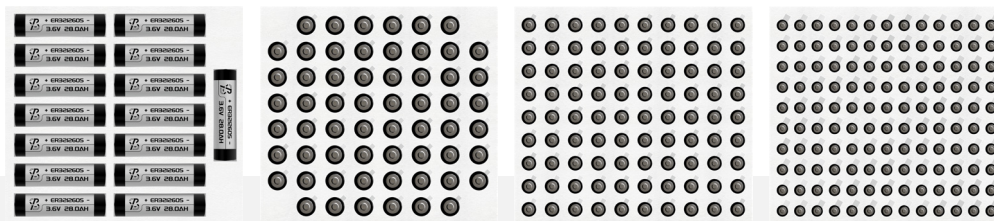
ER BATTERY PACKAGING DISPLAY



ENERGY TYPE SERIES PACKAGING [H]



POWER TYPE SERIES PACKAGING [M]



HIGH TEMPERATURE TYPE SERIES PACKAGING [S]

