

LITHIUM PRIMARY BATTERY



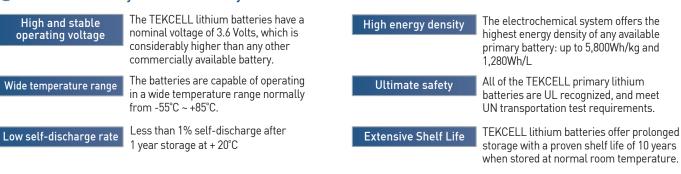
Tekcell, Always with you



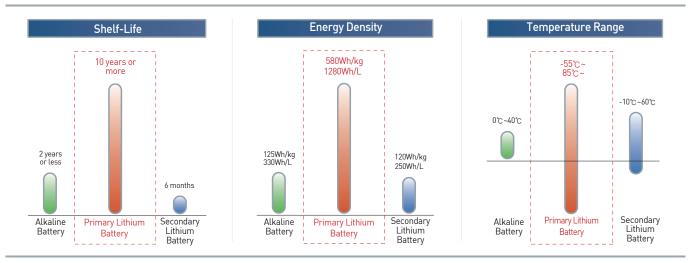
" Vitzrocell, the leader of portable power solutions!"

Vitzrocell (Tekcell Brand, a Korean Manufacturer) has been recognized as one of the best power solution providers of Lithium Primary Batteries in the world. We are proud of full range of products suitable for various applications such as Utility Meters (AMR), Asset Tracking, Security, Leak Detector, and Military Devices & Equipment. Based on more than 20 years of accumulated expertise equipped with ISO9001, ISO14001, UL and others, we have achieved a leading position in the global markets through creative R&D resources, vertically integrated production facilities, reliable products, on-time delivery, and superb technical service. Owing to such factors, we do have very close relationship with lots of valuable partners and customers in more than 50 countries.

• The lithium thionyl chloride battery



Comparison with other battery types



• Hybrid Battery Technology for Pulse Assist



and a	Hyb	orid Battery Type	Characteristic	Performance			
	Main Power	Pulse Assist	of Pulse Assist	Load on Battery	Working Voltage	Life of Battery	
	Primary Battery	Electrolytic Capacitor	Small capacitance	High	Low	Short	
		Li 2nd Battery	Bad charge efficiency Limitation of Power	Middle	Middle	Middle	
		Vitzrocap.	Ultra low resistance Excellent charge efficiency	Low	High	Long	

Vitzro Hybrid Battery

* High Power Vitzrocap.

High Efficiency: EDLC (Electric Double Layer Capacitor) of physical reaction

High Power Design: Carbon electrode as thin film and high power combination

Application



UBIQUITOUS

2 RFID Tag 8 Location Tracking System **4** TPMS 5 Toll pass Home Security system 6 Medical Equipments

ASSET TRACKING Animal tracking

Container Tracking

MILITARY SYSTEM 6 Night Goggles 8 Radio System

1 Positive Pin &

Insulator

6 Cathode

6 Spacer

8 Case

Header Base

O Shrinkable Tube

9 Separator

4 Anode

Current Collector

Ø Glass-to-Metal Seal

OCEAN EQUIOMENT

Isunami Detector 🕕 Life Jacket

- Buoy

OIL & GAS EXPLORATION

@ MWD(Measurement While Drilling)

PIG (Pipeline inspection gauge)

SMART GRID

(AMR (Automatic meter reading) • Gas Meter • Water Meter

Glass-to-Metal Seal

2 Cell Fuse

4 Case

5 Anode

9 Spacer

🕕 Cathode

6 Separator

Positive pin

8 Terminal Cap

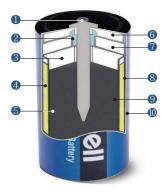
Shrinkable Tube 12 Current Collector

3 Header Base

Construction

Li/SOCl₂ Bobbin type

Application of Low Current drain



Strength

- High Safety Level
- Very Low Self Discharge Rate

Weakness

- Low Power High Passivation (Voltage Delay)
- High Energy Density
- Excellent Operating Life

Strength

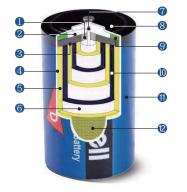
• High Power • Low Passivation (Voltage Delay)

Weakness

- Low Safety Level
- Low Self Discharge Rate
- Low Energy Density
- Low Operating Life

- Electricity Meter 🕼 Heat Meter
- Li/SOCl₂ Spiral type

Application of High Current drain





• Product List

Туре	Size	Model	IEC	Nominal Voltage (V)	Nominal Capacity (Ah)	Standard Discharge Current(mA)	Maximum Continuous Discharge Current(mA)	Maximum Pulse Discharge Current (mA)	Temperature Range(°C)	Weight (g)
	1/2AA	SB-AA02	ER14250	3.6	1.2	1	20	50	-55~85	9.0
		SB-AA02(P)	ER14250	3.6	1.2	1	20	80	-55~85	9.0
	AA	SB-AA11	ER14500	3.6	2.5	2	60	100	-55~85	16.0
Bobbin type		SB-AA11(P)	ER14500	3.6	2.5	2	60	150	-55~85	16.0
	А	SB-A01	ER17500	3.6	3.65	3	70	160	-55~85	24.0
	С	SB-C02	ER26500	3.6	8.5	4	80	180	-55~85	51.0
	D	SB-D02	ER33600	3.6	19.0	6	100	250	-55~85	100.0
	1/2AA	SW-AA01	ER14250	3.6	0.8	1	100	300	-55~85	9.0
	AA	SW-AA11	ER14500	3.6	2.0	3	250	800	-55~85	17.0
Li/SOCL ₂ Spiral type	А	SW-A01	ER17500	3.6	3.0	5	600	1,500	-55~85	30.0
	С	SW-C01	ER26500	3.6	6.0	15	900	1,800	-55~85	52.0
	D	SW-D03	ER33600	3.6	14.0	20	1,800	3,000	-55~85	102.0
Li/BCX	D	BW-D01		3.9	12.0				-55~85	102.0
	2/3A	CR123A	CR17350	3.0	1.5	14	1,000	3,500	-30~60	16.0
Li/MnO ₂		CR2	CR16270	3.0	0.8	10	800	2,500	-30~60	11.5
	A	CR17450	CR17450	3.0	2.4	1	1,000	3,000	-30~60	23.0

* Various terminals such as pin, wire, connector and etc. are also available by request

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