## **Power Sources DataBase**

#### **About Power Sources DataBase**

The Power Sources On-line Web DataBase Designed by Shmuel De-Leon

**Targeted Customers are:** 

Battery and Energy Sources Users
Pack Assemblers
Cell Makers
Energy Sources Suppliers
Academic Researchers
R&D Engineers
Market Researchers
Safety Personal
Battery Shippers
Others Industry Members

The DataBase provides an easy, fast and inexpensive way to find technical information about cells, batteries, chargers, fuel cells, battery holders, ultra capacitors, companies/manufacturers/vendors, conferences/fairs, industry literature and industry organizations.

The Power Sources DataBase includes over 29,000 records of batteries, cells and other energy source component data sheets with full parameters search capabilities.

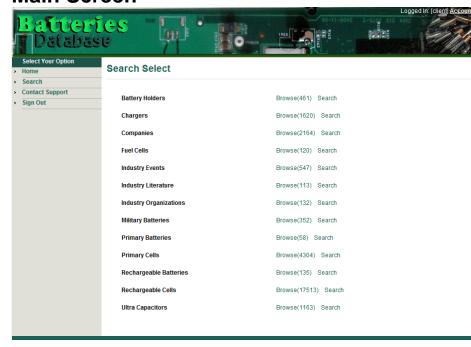
The Power Sources DataBase is a unique tool in the power sources industry and market.

## **Key Benefits**

- Easily select cells and other battery raw materials needed for optimal battery design, thus saving engineering time, costs and effort.
- Quickly locate manufacturers, vendors and suppliers in the field based on vendor and products details.
- Reduce purchasing costs by locating replacements and more vendors for your battery raw material needs.
- Minimize redesign costs and time, based on first time optimal raw material/cells selection.
- Cell makers can use the DataBase to compare their products to the market and expand sales, while improving products and quality.



## Main Screen



**Companies Search Engine** 

Datab	ese Ese	THE STATE OF THE PARTY OF THE P	Tees E			
Companies					Back To Product List	Reset Filters
		Jump to Search Results	Proceed to Col	umn Selection		
		General II	nformation			
Company Name	in .	1001 Piles Batteries 395 Energy N.V. 3M Fuel Cell Components 44 Tech Inc. 777 Battery industy Co A Berger Inc.	Company Status	in v	Active Aquired Closed Consult MFR Disclose Disposed Not-clear	•
		Contac	t Details			
Address	Equal to	-	Postal Box	Equal to 🔻		
City	In .	Aberdeen	State	Equal to 🔻		
		Achem Assch BL Albany Albuquerque Alcoa Alhambra	Country	in _	Argentina Armenia Australia Austria Bangladesh Belgium Brazii	
Zip Code	Equal to -		Tel#	Equal to 🔻		
Fax#	Equal to -		E-Mail	Equal to 🔻		
Company Web Site Link	Equal to		]		-	
		Compa	ny Type			
Battery recycler	is -		Battery Assembler	ls -		
Distributer			Developer	ls 🔻		
Laboratory	ls .		Consultant	ls 🔻		
Manufacturer			Research Institute	ls v		
Internet shop	is •		Service Provider	ls 🔻		
		Proc	ducts			
Automotive Battery Lab	ls .	. 🗆	Anodes	ls -		
Battery Balancers	ls .		Battery Electronic Bourds	ls •		
				_		

- Academic researchers and R&D engineers can compare research results to the products existing in the market.
- Market researchers can use the DataBase to explore, examine and evaluate market competition.
- Battery air transportation shippers are able to easily locate lithium cells and battery content.
- Enables battery safety personal to easily locate M.S.D.S. for the cells in use.
- DataBase updates are uploaded to the internet on a daily basis by Shmuel De-Leon and also by industry vendors.

#### **Power Sources DataBase Modules**

- Companies
- Primary Cells
- Rechargeable Cells
- Primary Batteries
- Rechargeable Batteries
- Military Batteries
- Ultra Capacitors
- Fuel Cells
- Universal Chargers
- Battery Holders
- Conferences/Fairs
- Industry Literature
- Industry Organizations

#### **Pricing**

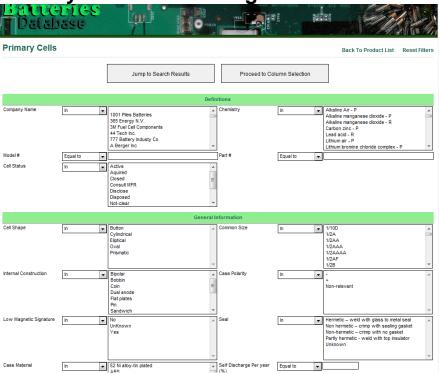
- Full software annual subscription is \$799.
- Full software monthly subscription is \$199.
- Save 10% on 2-5 subscriptions.
- Save 15% on 6-10 subscriptions.
- Power Sources DataBase subscribers receive a 10% discount on the Batteries & Fuel Cells Seminar.

## **Training**

Training is provided at Shmuel De-Leon Batteries and Fuel Cells Seminars.

The seminars will be held on a monthly basis in different worldwide locations (North America, Europe, Far East and Australia).

**Primary Cells Search Engine** 



# Rechargeable Cells Search Engine

Batte Deteb	ries ese		- maza	1960	0-11-5002 0-5		
Rechargeable	Cells					Back To Product List	Reset Filters
		Jump to Search Results		Proceed to Col	lumn Selection		
			Defir	nitions			
Company Name	in _	1001 Piles Batteries 365 Energy N.V. 3M Fuel Cell Components 44 Tech Inc. 777 Battery Industy Co A Berger Inc	â	Chemistry	in j	Alkaline Air - P Alkaline manganese dioxide - P Alkaline manganese dioxide - R Carbon zinc - P Lead acid - R Lithium air - P Lithium bromine chloride complex -	P
Model #	Equal to	-		Part#	Equal to	•	
Cell Status	in i	Active Aquired Closed Consult MFR Disclose Disposed Not-clear	=				
		G	eneral I	nformation			
Cell Shape	ln .	Button Cylindrical Eliptical Oval Prismattic	A	Common Size	in i	1/10D 1/2A 1/2AA 1/2AAA 1/2AAA 1/2AAAA 1/2AF	•
Internal Construction	ln [	Bipolar Bobbin Coin Dual anode Flat plates Pin Sandwich	i i	Case Polarity	ln [	- + Non-relevant	
Seal	in i	Hermetic – weld with glass to metal seal Non hermetic – crimp with sealing gasket Non-hermetic – crimp with no gasket Partly hermetic – weld with top insulator Unknown	A	Case Material	In i	52 Ni alloy-tin plated ABS Aluminum Black high impact ABS Cold rod steel Cold roll steel Laminate film	Ē
Self Discharge Per Month	Faual to			Shelf Life (Yr)	Foual to		

http://www.batteriesdatabase.com/

# <u>Vendors - How to Include Your Products in the DataBase</u>

A subscription to the Database will automatically allow the vendor to include all their products in the on-line DataBase after the information has been reviewed. This is completed easily via an automatic software tool via the internet.

# **The Power Sources Database Registration Form**.

Please fill in the attached form and send it to Shmuel De-Leon Ltd.: <a href="mailto:shmueld33@gmail.com">shmueld33@gmail.com</a>

Organization:	
Title:	
First Name:	
Last Name:	
Street:	
City:	
State:	
Country:	
Zip:	
Phone:	
Fax:	
E-mail:	
■ Battery and Ener ■ Pack Assemblers ■ Cell Makers ■ Energy Sources ■ Academic Resea ■ R&D Engineers ■ Market Research ■ Safety Personnel ■ Battery Shippers ■ Others Industry Market	Suppliers rchers ers
	filled pre-registration form to Shmuel De-Leon Energy mueld33@gmail.com.
	nergy Ltd. ·Hasharon, Israel 45309 2, Mobile: 972-52-8601517, E-Mail: <u>shmueld33@gmail.com</u>

## **Energy Source DataBase Content**

#### **Module 1: Companies**

Includes more than 2,000 companies classified according to address details, manufactured products, battery chemistries and fuel cell types.

#### Module 2: Primary Cells

Includes more than 4,000 classified cells with full general and technical querying capabilities and PDF data sheets.

## **Module 3: Rechargeable Cells**

Includes more than 16,000 classified cells with full general and technical querying capabilities and PDF data sheets.

## **Module 4: Primary Batteries**

Includes more than 100 classified standard batteries with full general and technical querying capabilities and PDF data sheets (this module is expected to be expanded to 1000 batteries within a year).

#### **Module 5: Rechargeable Batteries**

Includes more than 100 classified standard batteries with full general and technical querying capabilities and PDF data sheets (this module is expected to be expanded to 1000 batteries within a year).

#### **Module 6: Military Batteries**

Includes more than 350 classified standard military batteries with full general and technical querying capabilities and PDF data sheets.

#### **Module 7: Ultra Capacitors**

Includes more than 1200 classified ultra capacitors with full general and technical querying capabilities and PDF data sheets.

#### **Module 8: Fuel Cells**

Includes more than 100 classified fuel cells in production status, with full general querying capabilities and PDF data sheets.

## **Module 9: Universal Chargers**

Includes more than 1,600 classified universal chargers with full general and technical querying capabilities and PDF data sheets.

#### **Module 10: Battery Holders**

Includes more than 350 classified standard battery holders with full general and technical querying capabilities and PDF data sheets.

#### **Module 11: Conferences/Fairs**

Includes future and past industry conference/fairs/events with web links.

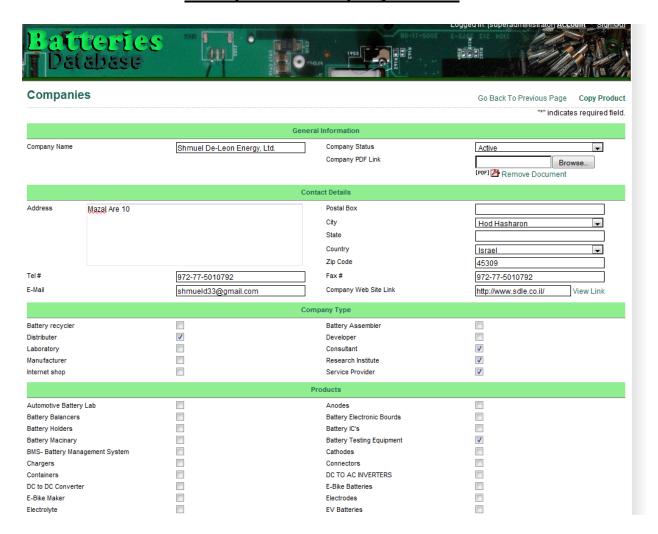
## **Module 12: Industry Literature**

Includes more than 100 industry literature/magazines/internet portals with full web links.

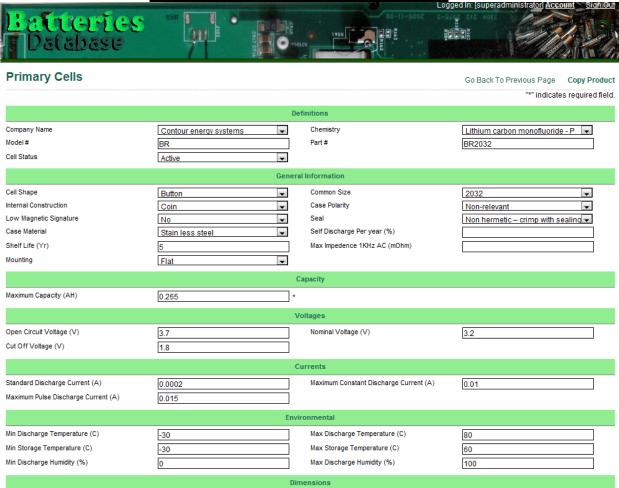
## **Module 13: Industry Organizations**

Includes more than 100 industry organizations with full web links.

## **Example of a Company Record**



Example of a Primary Cell Record



**Example of a Rechargeable Cell Record** Batteries Database **Rechargeable Cells** Back To Product List Reset Filters Jump to Search Results Proceed to Column Selection Chemistry Alkaline Air - P Company Name Like ▼ panasonic Alkaline manganese dioxide - P Alkaline manganese dioxide - R Carbon zinc - P Lead acid - R Lithium air - P Lithium bromine chloride complex - P Model# Equal to Part # Equal to Cell Status Active • Aquired Consult MFR Disclose Disposed General Information Button Cylindrical ▼ 1/10D 1/2A Cell Shape Common Size • Eliptical Oval 1/2AA 1/2AAA Prismatic 1/24444 1/2AF 1/2B ▼ Bipolar Internal Construction In • Bobbin Coin Non-relevant Dual anode Flat plates Pin Sandwich ▼ 52 Ni alloy-tin plated Seal Hermetic – weld with glass to metal seal Non hermetic – crimp with sealing gasket Case Material In Non-hermetic - crimp with no gasket Partly hermetic - weld with top insulator Aluminum Black high impact ABS Unknown Cold rod steel Cold roll steel Laminate film Self Discharge Per Month Equal to Shelf Life (Yr) Equal to •

## **Example of an Industry Events Table**

CONFERENCE/FAIR		Start Date	Event Name	Organizer Name	Location	Event Web Site	Link To Web PDF	No Future	Batteries	Fuel	Ultra	ElectronicsChargersE-Bike		
	CODE			-	Country	Link	File	Event		Cells	Capacitors		Chargers	E-BIKE
te Select	35	5/24/2009	215th 2009 Electrochemical Society Annual Spring Meeting	THE ELECTROCHEMICAL SOCIETY	USA	View Link	View PDF		V	✓				
te Select	36	10/4/2009	216th MEETING OF THE ELECTROCHEMICAL SOCIETY	THE ELECTROCHEMICAL SOCIETY	Austria	View Link	View PDF		V	V				Ш
e Select	117	7/7/2008	43TH POWER SOURCES CONFERENCE 2008	U.S ARMY RESEARCH, DEVELOPMENT & ENGINEERING COMMA	USA	View Link	View PDF		✓	✓	√.		7	
te Select	182	9/30/2009	Batteries 2009	BCA Cursus	France	View Link	View PDF		V					
te Select	202	4/25/2010	217th MEETING OF THE ELECTROCHEMICAL SOCIETY	THE ELECTROCHEMICAL SOCIETY	Canada	View Link	View PDF		V	✓				
te Select	203	10/10/2010	218th Meeting of the Electrochemical Society	THE ELECTROCHEMICAL SOCIETY	USA	View Link	View PDF		V	V				
te Select	205	10/9/2011	220th Meeting of the Electrochemical Society	THE ELECTROCHEMICAL SOCIETY	USA	View Link	View PDF	V	V	✓				
te Select	217	3/16/2009	THE 26TH INTERNATIONAL BATTERY SEMINAR & EXHIBIT 2009	FLORIDA EDUCATIONAL SEMINARS, INC	USA	View Link			V	✓		✓	V	
te Select	219	1/8/2009	2009 INTERNATIONAL CES	CONSUMER ELECTRONICS ASSOACIATION	USA	View Link			✓	✓		₹		
te Select	220	2/25/2009	FUEL CELL EXPO 2009	REED EXHIBITIONS JAPAN	Japan	View Link				✓				
te Select	222	5/31/2009	Hydrogen + Fuel Cells 2009	HYDROGEN FUEL CELLS CANADA	Canada	View Link	View PDF			✓				
e Select	224	4/12/2009	ELECTRONICS AND COMPONENTS CHINA SOURCING FAIR 2009	GLOBAL SOURCES	Hong kong	View Link	View PDF		✓		V	✓	V	
te Select	226	4/13/2009	HONG KONG ELECTRONIC FAIR 2009	Hong Kong Trade Development Council	Hong kong	View Link	View PDF		<b>V</b>		V	₹	V	
e Select	227	4/20/2009	15TH HANNOVER MESSE 2009 GROUP EXHIBIT HYDROGEN + FUEL CELLS	FAIR-PR	Germany	View Link	View PDF			V				
te Select	229	4/20/2009	SPACE POWER WORKSHOP	THE AEROSPACE CORPORATION	USA	View Link	View PDF		V	<b>V</b>	V	V	V	
te Select	230	4/27/2009	BATTCON 2009	ALBER	USA	View Link	View PDF		V	V			V	
e Select	233	6/8/2009	Advance Automative Battery Conference and Symposia 2009 (AABC)	ADVANCED ATOMOTIVE BATTERIES	USA	View Link	View PDF		V					Е
e Select	234	5/20/2009	All-Energy '09	SCOTTISH HYDROGEN & FUEL CELLASSOCIATION	Scotland	View Link	View PDF			✓				
e Select	237	6/10/2009	The 7TH International Lead Battery Fair	Battery Commerce Chamber International (BCC)	China	View Link	View PDF		✓				[/]	T
te Select	239	11/2/2009	PHEV2009	Centre for Sustainable Transportation and Plugin Highway Network	USA	View Link	View PDF		17	V		V	7	