

# 2011 Master Product Catalog

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**zeus<sup>®</sup>**

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[www.ZeusBatteryProducts.com](http://www.ZeusBatteryProducts.com)

# About ZEUS® Battery Products



Our Team Of Engineers And Quality Control Experts Produce The Most Powerful Solutions For Today's Most Challenging Applications — Everyday.

ZEUS Battery Products offers a complete selection of replacement batteries, chargers, and custom battery packs for all of your portable power requirements. Our professional staff and technical advisors serve some of the world's finest organizations with a wide range of application solutions. We have one of the largest selections of sealed lead acid batteries centrally located in the Midwest.

Our company produces custom battery packs for a wide range of applications, including emergency lighting, security systems, handheld electronics, and portable medical equipment. We provide the value added assembly and stringent quality control measures that ensure a premium product every time.

#### **Customer Service**

Our highly trained sales and customer service staff is ready to answer your questions quickly and completely, and to provide fast turnaround quotations.

#### **On-Going Technical Support**

We continue to work with you beyond the project's completion, to assure successful implementation, delivery and quality control, until our customer is completely satisfied.

#### **Power Solutions**

We offer solutions that meet all your portable power needs, whatever they may be. With a full range of products, competitive pricing, experience, integrity and quality, ZEUS Battery Products is the solution to your custom battery needs. We are the custom battery pack assembler you can trust!

#### **Uses and Applications:**

- **Consumer Electronics**
- **UPS Systems**
- **Emergency Lighting**
- **Fire, Alarm and Security Systems**
- **Test & Measuring Equipment**
- **Sporting Equipment**
- **Power Tools**
- **Highway Safety**
- **Solar Lighting**
- **Access Control Devices**
- **Point of Sale (POS) Displays**
- **Telecommunication**
- **Wheelchair & Scooters**
- **And More**

*We welcome all inquiries from small to large orders and from simple to complex applications. Please call our battery experts Toll Free at 1-877-469-4255 to see how we can become your single source for portable power solutions.*

*Our Battery Recycling Outlet Store is open to the public at 191 Covington Drive, Bloomingdale, IL. Hours of operation: M-F from 8am-5pm.*

# Unleash The **POWER** of **ZEUS**

Features of ZEUS Radio Controlled (RC) Li-Po Battery Packs, Chargers and Accessories



*Continuous High-Rate Discharge*

*Ultra-Long Life*

*Extensively Tested*

*State-Of-The-Art Anti-Puff Technology*

*Slow Temperature Increase*

*Superior Discharge Rates*

*...All Others Are Mere Mortals*

**Li-Po 7.4V**



**Li-Po 11.1V**



**Li-Po 7.4V**



**Li-Po 11.1V**



**Li-Po 11.1V**



**Li-Po 14.8V**



**Charge your Li-Po RC Packs in an Hour or Less!**  
(Based on a 5A charge at a 1C Rate)

# Sealed Lead Acid (SLA) Batteries



- F1** Faston® - 0.187" X 0.032" Quick Disconnect Tabs
- F2** Faston® - 0.250" X 0.032" Quick Disconnect Tabs
- FP** Positive "F2", Negative "F1"
- NB** Terminal Post With Nut And Bolt Connector (Bolt Size)
- SP** Spring Terminals For Positive And Negative Contacts
- M** Flush Mount Threaded Insertion (Bolt Size)
- WL** Wire Leads

## Features of ZEUS Rechargeable Sealed Lead Acid Batteries

### Maintenance Free

- Valve regulated
- Safe to discharge in any position.
- Electrolyte is absorbed into the positive and negative plates and separator
- No need to add electrolyte

### Ease of Shipping

- Requires no special handling
- Completely sealed construction

### Life Expectancy

- Will last up to 5 years in stand-by applications
- 200 to 1000 cycles in cyclic applications depending on depth of discharge

### Ease of Design

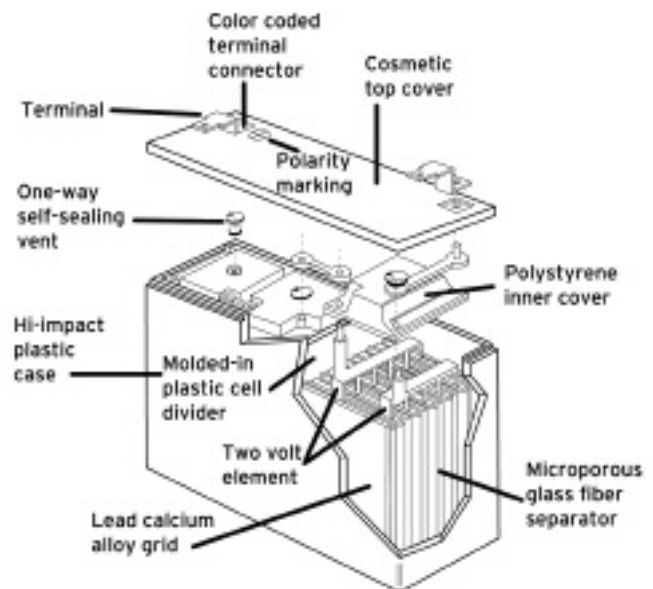
- Wide variety of sizes and amp ratings
- Maximum flexibility in the design
- Pack assembly, stand alone, stand-by, and cyclic applications

### Shelf Life and Storage

- Stored in fully charged condition
- Top charge every (6) months in ambient temperatures to prevent permanent loss of capacity
- Store at temperatures less than 50°F and 10C or lower to extend shelf life

### High Power Density & Deep Discharge Recovery

- Reliable power output in applications
- Advanced plate and separator materials
- Precise electrolyte delivery
- Great efficiency and ability to recover from deep discharge occurrences



**RU** File No: MH29008

### Charging Method

Application	Stand-By Use	Cycle Use
Charge Method	Constant Voltage	
Setting Voltage (v/cell)	2.25-2.30	2.40-2.50
Temperature Factor	-3.3mV/C/cell	-5.0mV/C/cell
Max. Charge Current (CA)	0.3	0.3
Discharge 100%	Charge Time 20C	16h
Discharge 50%		10h
Temperature (C)	0-40	

### Cycle Applications:

Limit initial current to 0.20C (C is the nominal A.H. capacity of the battery). Charge until battery voltage (under charge) reaches 2.45 volts per cell at 68°F (20C) Hold at 2.45 volts per cell until current drops to approximately 0.01C ampere. Battery is fully charged under these conditions, and charger should either be disconnected or switched to "float" voltage

### "Float" or "Stand-By" Service:

Hold battery across constant voltage source of 2.25 to 2.30 volts per cell continuously. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition



## Standard SLA Product Guide

Model	(V)	Current (A)	Initial (20hr) (Ah)	(MM)	Length IN (MM)	Width IN (MM)	Height IN Terminals	Height Over (KG)	Weight IN Std Term
PC4.5-2	2	1.35	4.5	1.89 (48.0)	0.98 (25.0)	3.98 (101.0)	4.17 (106.0)	0.66 (0.30)	F1
PC10-2	2	3.00	10	2.09 (53.0)	1.97 (50.0)	3.67 (93.3)	3.87 (98.3)	1.54 (0.70)	F1
PC3.5-4	4	1.05	3.5	3.54 (90.2)	1.35 (34.0)	2.36 (60.1)	2.60 (66.1)	0.95(0.43)	F1
PC4.5-4	4	1.35	4.5	1.87 (47.5)	1.87 (47.5)	3.98 (101.0)	4.21 (107.0)	1.28 (0.58)	F1
PC1.3-6	6	0.39	1.3	3.82 (97.0)	0.94 (24.0)	2.05 (52.0)	2.28 (58.0)	0.66 (0.30)	F1
PC2.3-6	6	0.69	2.3	1.65 (42.0)	1.46 (37.0)	3.01 (76.5)	3.01 (76.5)	0.77 (0.35)	F1
PC2.8-6	6	0.84	2.8	2.60 (66.0)	1.30 (33.0)	3.86 (98.0)	4.27 (108.5)	1.32 (0.60)	F1
PC3.2-6	6	0.96	3.2	4.92 (125.0)	1.30 (33.0)	2.36 (60.0)	2.58 (65.6)	1.39 (0.63)	F1
PC3.2-6G	6	0.96	3.2	2.64 (67.0)	1.34 (34.0)	4.65 (118.0)	4.88 (124.0)	1.39 (0.63)	F1
PC3.4-6	6	1.00	3.4	5.28 (134.0)	1.34 (34.0)	2.43 (61.6)	2.66 (67.6)	1.30 (0.59)	F1
PC4-6P	6	1.20	4	2.76 (70.0)	1.90 (48.3)	4.06 (103.0)	4.53 (115.0)	1.79 (0.81)	F1
PC4.5-6	6	1.35	4.5	2.76 (70.0)	1.85 (47.0)	4.09 (104.0)	4.15 (105.5)	1.83 (0.83)	F1 OR F2
PC5-6	6	2.00	5	2.76 (70.0)	1.85 (47.0)	4.09 (104.0)	4.15 (105.5)	1.86 (0.84)	F1 OR F2
PC5-6L	6	1.50	5	2.64 (67.0)	2.64 (67.0)	3.80 (96.5)	4.49 (114.0)	2.25 (1.02)	SP
PC6-6	6	1.80	6	3.33 (84.5)	1.88 (47.7)	4.41 (112.0)	4.65 (118.0)	2.75 (1.25)	F1 OR F2
PC7-6	6	2.10	7	5.94 (151.0)	1.34 (34.0)	4.37 (111.0)	4.61 (117.0)	2.42 (1.10)	F1
PC8.5-6	6	2.55	8.5	3.88 (98.6)	2.23 (56.6)	4.65 (118.0)	4.65 (118.0)	3.08 (1.40)	F1
PC12-6	6	3.60	12	5.94 (151.0)	1.97 (50.0)	3.70 (94.0)	3.98 (100.0)	4.09 (1.86)	F1
PC12-6FP	6	3.60	12	4.25 (108.0)	2.79 (71.0)	5.51 (140.0)	5.51 (140.0)	5.10 (2.32)	FP
PC3.3-8	8	1.00	3.3	5.28 (134.0)	1.44 (36.5)	2.50 (63.5)	2.74 (69.5)	1.87 (0.85)	F1
PC0.8-12	12	0.24	0.8	3.78 (96.0)	0.98 (25.0)	2.44 (62.0)	N/A	0.79 (0.36)	WL
PC1.3-12	12	0.36	1.3	3.82 (97.0)	1.69 (43.0)	2.05 (52.0)	2.28 (58.5)	1.26 (0.57)	F1
PC2-12	12	0.60	2	2.79 (71.0)	1.88 (47.8)	3.84 (97.6)	4.06 (103.0)	1.98 (0.90)	F1
PC2.2-12L	12	0.66	2.2	7.01 (178.0)	1.38 (35.0)	2.36 (60.0)	2.62 (66.0)	2.16 (0.98)	F1
PC2.5-12	12	0.75	2.5	2.88 (70.5)	1.81 (47.5)	3.87 (98.3)	4.10 (104.3)	1.76 (0.80)	F1
PC2.8-12	12	0.84	2.8	2.61 (66.4)	2.60 (66.0)	3.82 (98.0)	4.10 (104.0)	2.40 (1.09)	F1
PC3.4-12	12	1.00	3.4	5.25 (133.3)	2.63 (66.8)	2.40 (61.0)	2.64 (67.0)	2.87 (1.30)	F1
PC4.2-12	12	1.20	4.2	3.55 (90.0)	2.76 (70.0)	3.98 (101.0)	4.22 (107.0)	3.31 (1.50)	F1
PC4.5-12	12	1.35	4.5	3.54 (90.0)	2.76 (70.0)	3.98 (101.0)	4.21 (107.0)	3.57 (1.62)	F1
PC5-12	12	1.50	5	3.54 (90.0)	2.76 (70.0)	3.98 (101.0)	4.21 (107.0)	3.75 (1.70)	F1 OR F2
PC7-12	12	2.10	7	5.94 (151.0)	2.56 (65.0)	3.74 (95.0)	3.98 (101.0)	4.73 (2.15)	F1 OR F2
PC7.2-12	12	2.16	7.2	5.94 (151.0)	2.56 (65.0)	3.74 (95.0)	3.98 (101.0)	5.06 (2.30)	F1 OR F2
PC9-12S	12	2.70	9	5.94 (151.0)	2.56 (65.0)	3.70 (94.0)	3.94 (100)	5.73 (2.6)	F2
PC9-12	12	2.70	9	5.91 (151.0)	2.52 (64.0)	4.37 (111.0)	4.57 (116)	6.16 (2.80)	F2
PC12-12	12	4.80	12	5.94 (151.0)	3.86 (98.1)	3.74 (94.9)	3.97 (100.9)	8.12 (3.68)	F2
PC17-12	12	5.10	17	7.13 (181.0)	2.99 (76.0)	6.57 (167.0)	6.57 (167.0)	12.35 (5.60)	NB (m5)
PC17-12	12	5.10	17	7.13 (181.0)	2.99 (76.0)	6.57 (167.0)	6.57 (167.0)	12.35 (5.60)	M (m4)
PC18-12	12	5.40	18	7.13 (181.0)	3.03 (77.0)	6.57 (167)	6.57 (167.0)	12.54 (5.7)	NB (m5)
PC22-12NB	12	6.60	22	7.13 (181.0)	3.03 (77.0)	6.57 (167.0)	6.57 (167.0)	12.30 (5.58)	NB (m5)
PC22-12M	12	6.60	22	7.13 (181.0)	3.03 (77.0)	6.57 (167.0)	6.57 (167.0)	12.30 (5.58)	M (m4)
PC26-12NB	12	7.80	26	6.89 (175.0)	6.54 (166.0)	4.94 (125.6)	4.94 (125.6)	17.00 (7.71)	NB (m5)
PC26-12M	12	7.80	26	6.89 (175.0)	6.54 (166.0)	4.94 (125.6)	4.87 (123.6)	17.00 (7.71)	M (m6)
PC33-12NB	12	8.25	33	7.72 (196.0)	5.16 (131)	6.14 (156.0)	7.09 (180.0)	24.70 (11.22)	NB (m8)
PC33-12M	12	8.25	33	7.68 (195.0)	5.12 (130.0)	6.26 (159.0)	6.26 (159.0)	24.70 (11.22)	M (m6)
PC40-12NB	12	10.00	40	7.76 (197.0)	6.50 (165.0)	6.73 (171.0)	6.73 (171.0)	29.32 (13.30)	NB (m6)
PC40-12M	12	10.00	40	7.76 (197.0)	6.50 (165.0)	6.73 (171.0)	6.73 (171.0)	29.32 (13.30)	M (m5)
PC55-12NB	12	13.00	55	8.98 (228.0)	5.39 (137.0)	8.27 (210.0)	9.02 (229.0)	36.00 (16.33)	NB (m6)
PC55-12M	12	13.00	55	8.98 (228.0)	5.39 (137.0)	8.27 (210.0)	8.27 (210.0)	36.00 (16.33)	M (m8)
PC65-12	12	16.00	65	13.78 (350.0)	6.57 (167.0)	7.05 (179.0)	7.16 (182.0)	47.62 (21.60)	NB (m6)
PC70-12NB	12	17.50	70	10.20 (259.0)	6.61 (168.0)	8.19 (208.0)	8.90 (226.0)	49.78 (22.60)	NB (m6)
PC70-12M	12	17.50	70	10.20 (259.0)	6.61 (168.0)	8.19 (208.0)	8.19 (208.0)	49.78 (22.60)	M (m8)
PC90-12NB	12	22.50	90	12.09 (306.0)	6.62 (168.0)	8.20 (208.0)	8.90 (226.0)	59.75 (27.10)	NB (m6)
PC90-12NB	12	22.50	90	12.09 (306.0)	6.62 (168.0)	8.20 (208.0)	8.20 (208.0)	59.75 (27.10)	M (m8)
PC100-12NB	12	25.00	100	12.99 (329.0)	6.77 (173.0)	8.54 (220.0)	8.94 (245.0)	64.82 (29.40)	NB (m8)
PC100-12M	12	25.00	100	12.99 (329.0)	6.77 (173.0)	8.54 (220.0)	8.54 (220.0)	64.82 (29.60)	M (m8)
PC120-12	12	30.00	120	16.10 (409.0)	6.99 (177.0)	8.86 (225.0)	8.86 (225.0)	81.79 (37.10)	NB (m6)
PC150-12	12	37.50	150	19.01 (483.0)	6.97 (175.6)	9.06 (241.0)	9.49 (241.0)	100.22 (45.50)	M (m8)
PC200-12	12	50.00	200	20.55 (522.0)	9.45 (240.0)	8.62 (219.0)	9.45 (240.0)	145.51 (63.00)	M (m8)

For information about products (ex: High Rate, Gel, etc.) please call or visit our website.

# Available Chemistries



## Coin Cell Batteries

**Features:** Available as both primary (non-rechargeable) and secondary (rechargeable) batteries; most consumer applications involve replaceable primary cells.

**Applications:** Watches, hearing aids, calculators, medical device, keyless entry FOBS, toys, portable electronics and many other applications.



## Nickel Cadmium Batteries

**Features:** Long service life and economical. These cells can provide more than 500 charge and discharge cycles.

**Applications:** Gauges, Calculators, Photographic Lights, Household Applications, Power Tools, Toys/RC Cars, Emergency Lights, Telecommunications.



## Nickel Metal Hydride Batteries

**Features:** Environmentally Friendly: Ni-MH batteries are free of Cadmium and mercury. They are an environmental friendly chemical power source.

**Applications:** Low-cost consumer applications, electric razors, toothbrushes, medical instruments, same as NiCad with 2-3 times the power capability.



## Lithium Batteries

**Features:** High Energy Density, High Voltage, Pollution-free, Non-metal Lithium, Long Cycle Life, No Memory Effect, Fast Charge Capacity.

**Applications:** Personal Computers, Cellular Phones, Personal cordless electronic applications, Portable CD Players, PDA, Power Tools.



## Alkaline Batteries

**Features:** Our ZEUS alkaline batteries are built with a low cost manganese dioxide as the active material which provides powerful performance at an affordable price.

**Applications:** Flashlights, microphones, clocks, portable entertainment devices.



## Battery Chargers

ZEUS Battery Products can provide you with the right charger to put energy back into your batteries. We offer a full complement of 1, 2 and 3 stage chargers for rechargeable SLA, NiCd, NiMH and Lithium products.



Our assembly processes are performed in accordance with ISO 9001:2008

*Please contact our sales or engineering department for additional information to locate the proper battery chemistry or charger to meet your requirements.*

# Request For Quote

Please include a drawing and/or Bill Of Material to help assist with the quoting process.



Customer Name \_\_\_\_\_ Buyer Name \_\_\_\_\_  
Buyer E-mail \_\_\_\_\_ Buyer Phone (\_\_\_\_) \_\_\_\_\_ Buyer Fax (\_\_\_\_) \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Engineer Name \_\_\_\_\_ Engineer E-mail \_\_\_\_\_  
Engineer Phone (\_\_\_\_) \_\_\_\_\_ Engineer Fax (\_\_\_\_) \_\_\_\_\_

Application \_\_\_\_\_  
Battery Size (AA,C,D, N etc.) \_\_\_\_\_ Specified Source (Mfg/ Part #) \_\_\_\_\_  
Can We Use Alternate Suppliers? Yes \_\_\_\_\_ No \_\_\_\_\_  
Voltage Nominal \_\_\_\_\_ Minimum (discharged) \_\_\_\_\_ Max (Charged) \_\_\_\_\_  
Chemistry ( NiCd, Lithium Ion, Sealed Lead Acid, etc.) \_\_\_\_\_ Amp Hour Rating \_\_\_\_\_  
EAU Qty \_\_\_\_\_ PO Qty \_\_\_\_\_ Shipment Qty \_\_\_\_\_  
Planned Production Start Date \_\_\_\_\_ Quantities To Quote (4 Qtys Max) \_\_\_\_\_

New Program? Yes \_\_\_\_\_ No \_\_\_\_\_  
If Yes: Production Start Date Planned For: \_\_\_\_\_  
If No: Problems With Current Suppliers (Price, Quality, Delivery): \_\_\_\_\_

**Fax To: 630-295-6801 • Email: [sales@zeusbatteryproducts.com](mailto:sales@zeusbatteryproducts.com)**

## Battery Pack Information

**Side-By-Side**



**Side-By-Side Composite**



**End-To-End**



**End-To-End Composite**



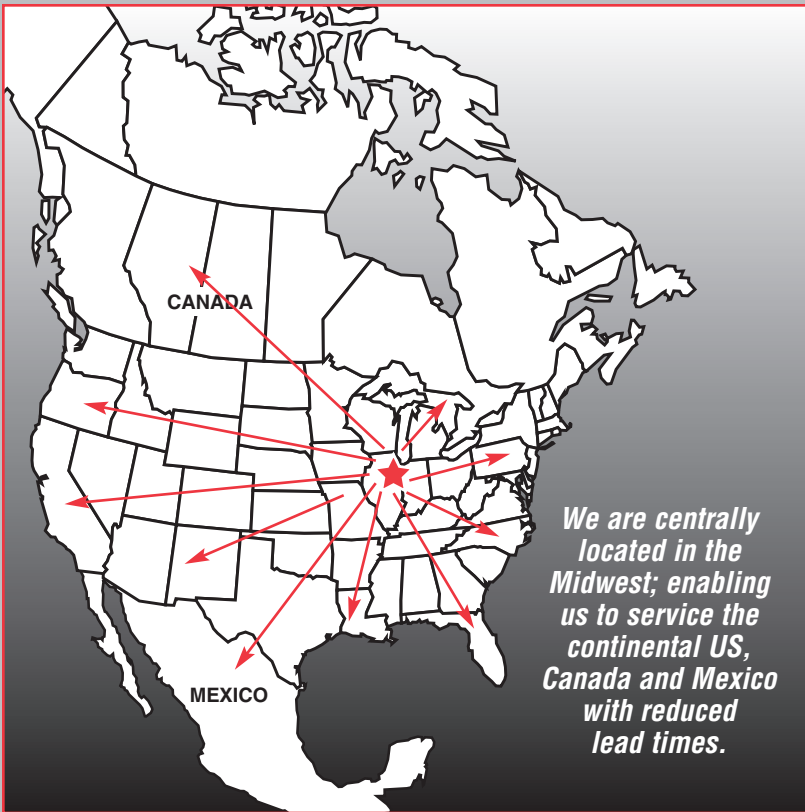
### Custom Battery Packs

ZEUS Battery Products is a leading provider of custom battery pack assemblies. We welcome all inquiries from short run to large volumes and from simple to complex applications. We take pride in the quality and turn around time of these custom orders.

We can assemble battery packs using all chemistries: Nickel Cadmium (NiCd), Nickel Metal Hydride (NiMH), Lithium (primary, lithium ion, and lithium polymer), Sealed Lead Acid (SLA) and Alkaline. We also have experience working with intrinsically safe battery packs.

#### When Specifying Battery Packs, Please Provide:

1. Chemistry
2. Cell Sizes And Types
3. Number Of Cells
4. Voltage
5. Pack Configurations
6. Termination Type
7. Miscellaneous Or Custom Component Parts



**Battery Recycling**

ZEUS Battery Products is committed to protecting our environment, keeping recycled batteries out of our nation's landfills and preserving our natural resources. More than 97 percent of all battery lead is recycled. Lead-acid batteries top the list as the most highly recycled consumer product.

The following battery chemistries can be recycled:  
 Alkaline, Nickel Cadmium (Ni-Cd), Nickel Metal Hydride (Ni-Mh), Lithium Ion (Li-Ion),  
 Lithium Polymer, Sealed Lead Acid (SLA)

It's easy and free to recycle old cell phones and rechargeable batteries from your cordless electronic products. Please call the RBRC at 800-8-BATTERY or visit their website at [www.call2recycle.org](http://www.call2recycle.org)



191 Covington Drive  
 Bloomingdale, Illinois 60108  
 Phone: 630-295-6800 Fax 630-295-6801  
**Toll-Free: 1-877-469-4255**

**[www.ZeusBatteryProducts.com](http://www.ZeusBatteryProducts.com)**  
 For Sales Inquiries: [sales@zeusbatteryproducts.com](mailto:sales@zeusbatteryproducts.com)

