

Design Advantages

Phenomenal starting power and massive deep cycle reserve power in one battery!

Some batteries provide enormous cranking power. Others, deep cycle reserve power. The revolutionary ODYSSEY® battery is designed to do both.

How is this possible? The answer begins with flat plates made of 99.99% pure lead - not lead alloy. Pure lead plates can be made thinner, so we can fit more of them in the battery. More ODYSSEY battery plates mean more plate surface area. And that means more power – twice as much as conventional batteries.

In fact, ODYSSEY batteries are capable of providing engine cranking pulses in excess of 2250 amps for 5 seconds – double to triple that of equally sized conventional batteries, even at very low temperatures. And they can handle 400 charge-discharge cycles to 80% depth of discharge.

This extreme combination of power and performance makes ODYSSEY batteries perfect for a range of applications, including automotive/LTV, marine, commercial, and powersports.

Why Use ODYSSEY Batteries:

- **Longer cycle life**

70% longer cycle life than conventional deep cycle batteries — high stable voltage for longer periods of time.

- **Longer shelf life**

Can be stored on open circuit (nothing connected to the terminals) without recharging for up to 2 years or 12.00V, whichever occurs first.

- **Faster recharge**

The highest recharge efficiency of any sealed lead battery on the market — capable of 100% recharge in 4-6 hours.

- **Mounting flexibility**

Non-spillable design — can be mounted on any side in any position except inverted.

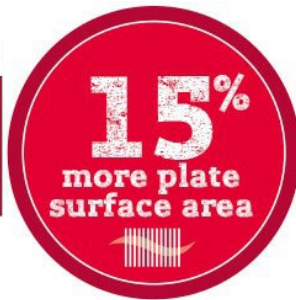
- **Vibration resistance**

Design protects against high impact shock and mechanical vibration — a common cause of premature battery failure.

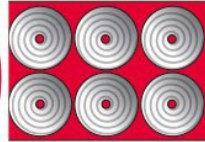
- **Extreme temperature tolerant**

Operating temperatures from -40°C (-40°F) to 45°C (113°F), for models without a metal jacket, and from -40°C (-40°F) to 80°C (176°F) for models with a metal jacket.

ODYSSEY Batteries



Spiral-Wound design



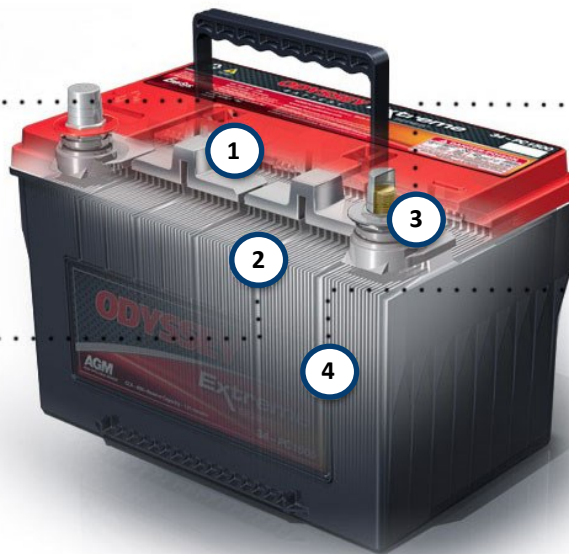
■ Unused Battery Space

1

Robust Intercell Connections are cast to the plates and bonded to resist vibration and eliminate internal sparking

2

99.99% Pure Lead Plates are extremely thin, so more of them fit in the battery. More plates = More power



3

Tin Alloy Coated Brass Terminals ensure secure, corrosion-free cable connections

4

Compressed AGM plate separators deliver extreme vibration resistance and prevent spills, even when battery is installed sideways

	ODYSSEY Extreme Series Batteries	Conventional Batteries
Design Life	8-12 Years (Float) 77F (25c)	5 Years
Service Life	3 to 10 years	1 to 5 Years
Electrolyte	Drycell ("starved electrolyte") no external leakage or corrosion	Most are acid flooded (Causing acid burns and spills); some wet sealed or "gelled"
Storage Life	2 years before needing charge @ 77F (25c)	6-12 weeks before needing charge
Shipping	Air transportable; US Department of Transportation classified non-Spillable (less expensive)	Ground transport; classified as hazardous material (more expensive)
End of Life	Battery slowly loses power at end of life; no catastrophic failure	Immediate and catastrophic loss of power (can leave you stranded)

Specifications:

Model	Voltage	PHCA** (5 Sec)	CCA*	HCA	MCA	Nominal Capacity (20Hr Rate-Ah)	Nominal Capacity (10Hr Rate-Ah)	Reserve Capacity Minutes	Length Inches	Width Inches	Height Inches	Weight Lbs	Terminals	Torque Specs in lbs (Nm Max)	Internal Resistance (mΩ)	Short Circuit Current
PC310	12	310	100	200	155	8	7	9	5.43	3.9	3.98	5.9	M4 Receptacle	8.9 (1.0)	27.1	455A
PC370	12	425	200	315	270	15	14	25	7.9	3	5.5	12.5	M6 Stud	35 (3.9)	13.5	891A
PC535	12	535	200	300	265	14	13	21	6.7	3.9	6.24	12	M6 Receptacle	40 (4.5)	7.1	1000A
PC545	12	460	150	280	220	13	12	18	7.01	3.38	5.16	11.4	M6 Receptacle	50 (5.6)	7.8	800A
PC625	12	540	220	400	330	18	17	26	6.7	3.9	6.95	13.2	M6 Receptacle	40 (4.5)	7	1800A
PC680	12	520	170	350	280	16	16	24	7.27	3.11	7.55	15.4	M6 Receptacle† or SAE 3/8" Receptacle	50 (5.6)	7.5	1000A
PC925	12	900	330	610	480	28	27	48	6.64	7.05	5.83	23.8	M6 Receptacle† or SAE 3/8" Receptacle	60 (6.8)	4.3	1140A
PC950	12	950	400	600	500	34	32	60	9.8	3.8	6.1	20	M6 Stud	35 (3.9)	7.1	1700A
PC1100	12	1100	500	800	650	45	43	87	9.8	3.8	8.1	27.5	M6 Stud	35 (3.9)	5.1	2450A
PC1200	12	1200	540	860	725	42	40	78	7.87	6.66	7.6	38.2	M6 Receptacle† or SAE 3/8" Receptacle	60 (6.8)	3.2	1500A
75-PC1230	12	1230	760	1050	815	55	50	110	9.47	7.08	7.44	43.4	SIDE 3/8" Receptacle	60 (6.8)	2.5	3100A
75/86-PC1230	12	1230	760	1050	815	55	50	110	9.47	7.08	7.98	43.4	Top SAE SIDE 3/8" Receptacle	60 (6.8)	2.5	3100A
PC1350	12	1350	770	1080	960	95	88.5	195	13.9	6.88	7.48	60.4	DIN Lead Post	N/A	4.2	2900A

- *Cold Start Performance S.A.E J537 JUNE 82
- **Pulse Current
- † Can be fitted with brass automotive terminal
- Optional metal jackets available on PC545, PC680, PC925, PC1200, PC1700 and 31-PC2150
- Operating temperature range:
 - PC310 and PC1800-FT: -40°F (-40°C) to 122°F (50°C)
 - PC370, PC950 and PC1100: -40°F (-40°C) to 122°F (50°C)
 - PC535 and PC625: -40°F (-40°C) to 113°F (45°C)
 - PC545, PC680, PC925, PC1200 and PC1700 without metal jacket: -40°F (-40°C) to 113°F (45°C)
 - PC545, PC680, PC925, PC1200 and PC1700 with metal jacket: -40°F (-40°C) to 176°F (80°C)
 - PC1350 and PC2250: -40°F (-40°C) to 104°F (40°C)

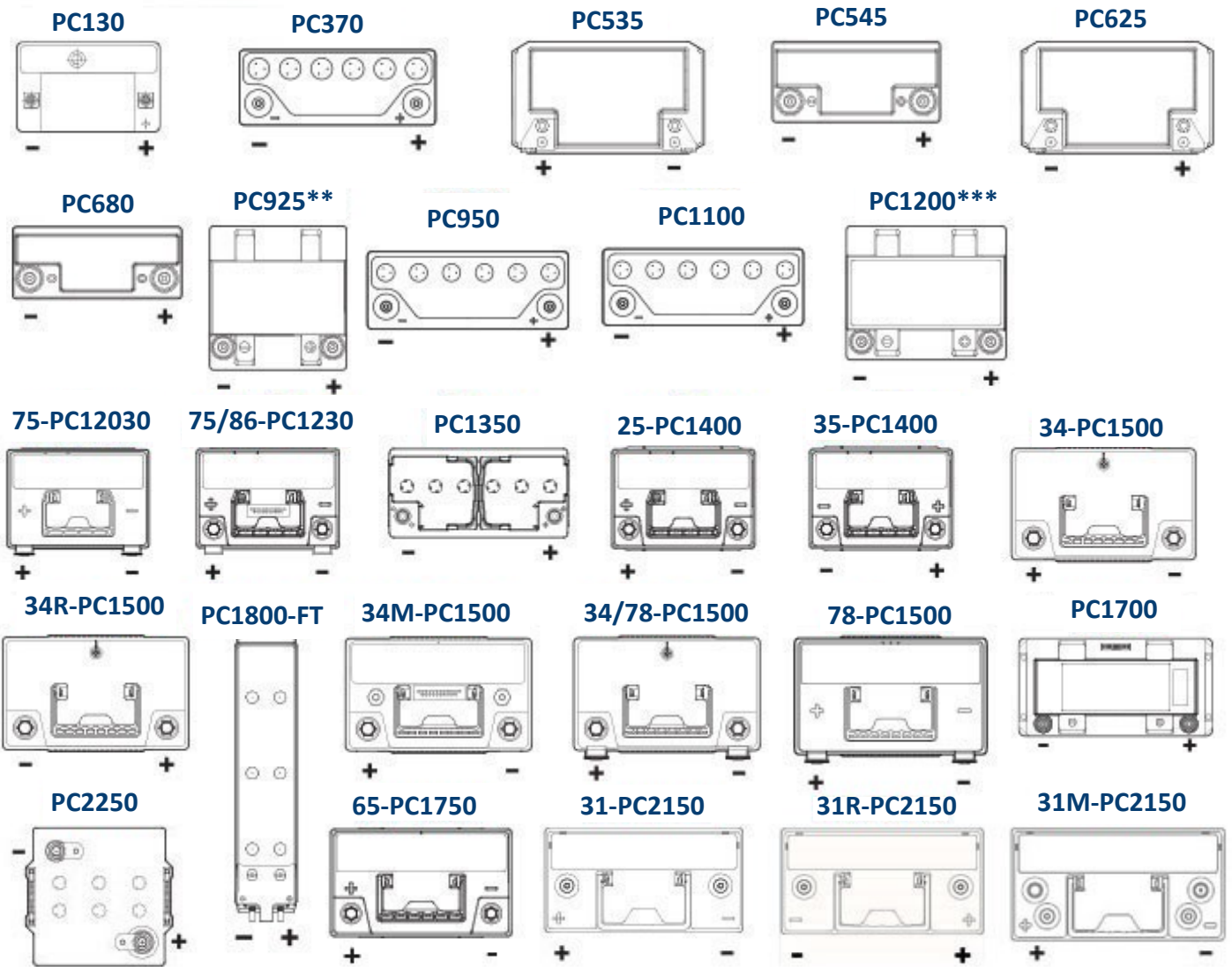
Specifications:

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25-PC1400	12	1400	850	1150	950	65	55	130	9.47	6.85	8.75	50	SAE	N/A	2.5	3100A
35-PC1400	12	1400	850	1150	950	65	55	130	9.47	6.85	8.75	50	SAE	N/A	2.5	3100A
34-PC1500	12	1500	850	1250	1050	68	62	135	10.86	6.77	7.88	49.5	SAE	N/A	2.5	3100A
34R-PC1500	12	1500	850	1250	1050	68	62	135	10.86	6.77	7.88	49.5	SAE, Positive Right Terminal	N/A	2.5	3100A
34M-PC1500	12	1500	850	1250	1050	68	62	135	10.86	6.77	7.95	49.5	SAE and 3/8" Stud (Pos.) 5/16" Stud (Neg.)	60 (6.8)	2.5	3100A
34/78-PC1500	12	1500	850	1250	1050	68	62	135	10.86	7.09	7.88	49.5	TOP SAE SIDE 3/8" Receptacle	60 (6.8)	2.5	3100A
78-PC1500	12	1500	850	1250	1050	68	62	135	10.86	7.09	7.34	49.5	SIDE 3/8" Receptacle	60 (6.8)	2.5	3100A
PC1700	12	1550	810	1325	1175	68	65	142	13.03	6.63	7.78	60.9	M6 Receptacle† or SAE 3/8" Receptacle	60 (6.8)	2.2	2400A
65-PC1750	12	1750	950	1350	1070	74	65	145	11.84	7.19	7.49	54	SAE	N/A	2	5000A
PC1800-FT	12	1800	1300	1600	1450	214	190	475	22.87	4.92	12.46	132.3	3/8" Stud	80 (9.0)	3.3	3800A
31-PC2150	12	2150	1150	1545	1370	100	92	205	13.07	6.91	9.7	77.8	3/8" Stud or SAE	150-220 (16.9-22.6)	2.2	5000A
31R-PC2150	12	2150	1150	1545	1370	100	92	205	13.07	6.91	9.7	77.8	3/8" Stud or SAE	150-220 (16.9-22.6)	2.2	5000A
31M-PC2150	12	2150	1150	1545	1370	100	92	205	13	6.8	9.39	77.8	SAE and 3/8" Stud (Pos.) 5/16" Stud (Neg.)	200 (22.6) max Stud Only	2.2	5000A
PC2250	12	2250	1225	1730	1550	126	114	240	11.26	10.59	9.17	86	SAE Terminal and 3/8" Stud	100 (11) for 3/8" Stud Only	2.1	5000A

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- PC1350 and PC2250: -40°F (-40°C) to 104°F (40°C)
- All other models: -40°F (-40°C) to 176°F (80°C)

Terminal Layouts



Drawing size are for terminal position reference only;

Diagrams are not Proportionate to each other.

****Optional Reversed Polarity (L)*