

#### WARRANTY:

EnerSys Energy Products Inc. ("Manufacturer") warrants its ODYSSEY® batteries (hereafter referred to as "Battery") to be free of defects in material and workmanship for the following Applicable Warranty Periods:

- 1 year for aircraft applications.
- 2 years for Auxiliary Power (APU) and other non engine start cycling applications.
- 2 years for power sports applications.
- 3 years for commercial, industrial, marine and automotive applications in non BCI sizes. See Specifications page.
- 4 years for an engine starting application for PC1220, PC1350, PC1800-FT, PC2250 and all BCI sizes. See specifications page.

The warranty does not cover a Battery reaching its normal end of life which may occur prior to the warranty periods stated above. Depending on the application a Battery can reach its normal end of life before the end of the warranty period.

A Battery can deliver only a fixed number of usable amp-hours over its lifetime and is considered to have reached its normal end of life if the application uses up all of these amp-hours, regardless of the time the Battery has been in service. Therefore Manufacturer reserves the right to deny a warranty claim if it determines the Battery to be at its normal end of life, even if the claim is lodged within the applicable warranty period.

The Applicable Warranty Period begins from the date of purchase with original receipt, or, if no receipt is available, from Manufacturer's shipping date as stated on the battery. Batteries determined to meet the conditions of this warranty will be replaced free of charge if, at the sole discretion of Manufacturer, adjustment is necessary due to defect in material or workmanship. Batteries for warranty replacement consideration are to be returned to the original supplying distributor/dealer. If not feasible, other ODYSSEY® distributors/dealers can be approached but a warranty processing fee may be applied. This warranty may vary from country to country; contact your authorized ODYSSEY® Battery wholesaler or dealer for the applicable warranty.

#### GENERAL PROVISIONS:

A. Manufacturer has no obligation under the limited warranty herein in the event the Battery is damaged or destroyed as a result of one or more of the following:

- Willful abuse, misuse, physical damage, neglect or if the top decorative cover has been removed.
- Natural forces such as wind, lightning, hail, damage due to fire, collision, explosion, vandalism, theft, penetration or opening of the Battery case in any manner.
- Overcharging, undercharging, charging or installing in reverse polarity, improper maintenance, allowing the Battery to be deeply discharged via a parasitic load or mishandling of the Battery such as but not limited to using the terminals for lifting or carrying the Battery. Trickle chargers that do not have a regulated trickle charge voltage between 13.5V and 13.8V (no lower than 13.5V and no higher than 13.8V) will cause early failure of the Battery. Use of such chargers with the Battery will also void the Battery's warranty. For applications where an alternator is present, the alternator must deliver between 14.0V and 14.7V when measured at the Battery's terminals. Alternators that do not have a regulated charge between 14.0V and 14.7V (no lower than 14.0V and no higher than 14.7V) will cause early failure of the Battery. Use of such alternators with the Battery will also void the Battery's warranty.
- Failure to properly install the Battery or lack of metal jacket for high temperature or vibration applications.
- Repair or attempted repair of the Battery by anyone other than an authorized Manufacturer's representative shall void this warranty.
- Normal or accelerated deterioration in the electrical qualities due to operating or application conditions.
- If the Battery is used for an application that requires higher cranking power or a greater reserve rating than the Battery is designed to deliver, or the Battery capacity is less than the Battery capacity specified by the vehicle manufacturer, or the Battery is otherwise used in applications for which it was not designed.
- Prolonged storage of vehicles with fuel injection computers, alarms, GPS and other electrical devices that require continuous battery power to support active memories; this power drain must be offset with a maintenance-float charger, periodic charging or disconnecting the Battery to prevent irreversible damage. A Battery with an open circuit voltage (OCV) of equal to or less than 8.0V will be deemed as over discharged and void warranty due to misuse and/or neglect.

WARNING - DO NOT USE ANY TYPE OF OIL, ORGANIC SOLVENT, ALCOHOL, DETERGENT, STRONG ACIDS, STRONG ALKALIS, PETROLEUM-BASED SOLVENT OR AMMONIA SOLUTION TO CLEAN THE BATTERY COVERS AND BATTERY TOPS. THESE MATERIALS MAY CAUSE PERMANENT DAMAGE TO THE BATTERY COVERS BATTERY TOPS AND WILL VOID THE WARRANTY.

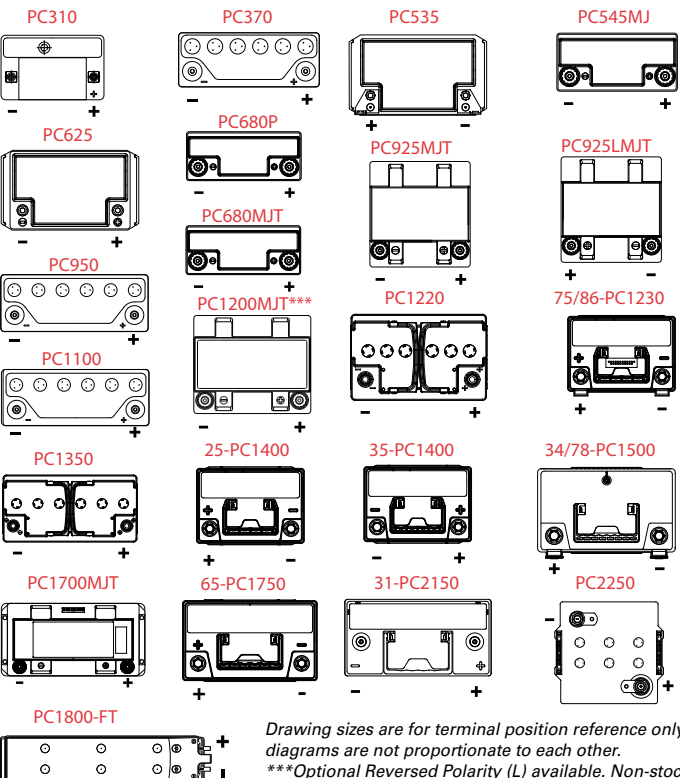
B. To obtain warranty service:

1. Return the Battery to the original supplying wholesaler or dealer.
2. If the Battery is determined by Manufacturer, in its sole discretion, to be defective for material or workmanship under terms of this limited warranty, it will be replaced.
3. Manufacturer's acceptance of any items shipped to Manufacturer shall not be deemed an admission that the items so shipped are defective. Any items shipped back to Manufacturer, shall in Manufacturer's sole discretion, become Manufacturer's property.

THIS LIMITED WARRANTY IS IN LIEU OF, AND MANUFACTURER DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, STATUTORY, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. MANUFACTURER'S EXCLUSIVE LIABILITY FOR BREACH OF WARRANTY SHALL BE TO REPLACE THE BATTERY WITHIN THE EFFECTIVE WARRANTY PERIOD. IN NO EVENT SHALL MANUFACTURER BE LIABLE FOR ANY LOSS OR DAMAGES OF ANY OTHER KIND, WHETHER DIRECT, INCIDENTAL, CONSEQUENTIAL, EXEMPLARY, SPECIAL OR OTHERWISE. NOR SHALL MANUFACTURER BE LIABLE FOR ANY REMOVAL OR INSTALLATION EXPENSE, OR THE LOSS OF TIME OR PROFITS.

Some countries and/or states do not allow limitation on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you. This warranty gives you specific legal rights, which may vary from country to country and/or state to state. This warranty shall be governed by and interpreted in accordance with the laws of the Commonwealth of Pennsylvania without regard to Pennsylvania conflicts of laws rules. The United Nations Convention on Contracts for the International Sale of Goods signed in Vienna in 1980 shall not apply to this warranty. This warranty is understood to be the exclusive agreement between the parties relating to the subject matter hereof. No employee or representative of Manufacturer is authorized to make any warranty in addition to those made in this agreement.

#### TERMINAL LAYOUTS



Drawing sizes are for terminal position reference only; diagrams are not proportionate to each other. \*\*\*Optional Reversed Polarity (L) available. Non-stock item

#### About EnerSys®

EnerSys® is a global leader in stored energy solutions for automotive, military, and industrial applications. With manufacturing facilities in 18 countries, sales and service locations throughout the world, and over 100 years of battery experience, EnerSys is a powerful partner for automotive service and parts providers.



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Powered by **EnerSys**  
Power/Full Solutions

# ODYSSEY®

## THE EXTREME BATTERY

ENGINEERED WITH THIN PLATE PURE LEAD (TPPL) TECHNOLOGY



# DRIVE IT TO EXTREMES



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

# ODYSSEY®

## THE EXTREME BATTERY

**Longer warranty** – Up to 4 years full replacement warranty, as per warranty conditions specified in this publication.

**Longer service life** – 3-10 years of service life.

**Longer cycle life** – 70% longer cycle life and up to 400 cycles at 80% depth of discharge.†

**Longer shelf life** – Storable with nothing connected to the terminals for up to 2 years, or down to 12.00V, whichever comes first.

**Faster recharge** – 100% recharge in 4-6 hours – the highest efficiency of any sealed lead battery.

**More flexible mounting** – Non-spillable design allows mounting on any side, in any position (except inverted).

**Vibration resistance** – Protection against the high impact shocks and vibration that often cause premature battery failure.

**Extreme temperature tolerance** – Operating temperatures from -40° to 80°C.\*

**Maintenance free** – No need to add water, ever!

**Improved safety** – Classified “non-spillable”, not classified as Dangerous Goods by road, rail or air transport in Australia – no acid spills and no escaping gases!

### SPECIFICATIONS

Model	Voltage	PHCA** (5 sec)	CCA*	HCA	MCA	Nominal Capacity		Reserve Capacity Minutes	Length (mm)	Width (mm)	Height (mm)	Weight (kg)	Terminal	Torque Specs Nm max	Internal Resistance (mΩ)	Short Circuit Current
						(20 Hr Rate-Ah)	(10 Hr Rate-Ah)									
PC310	12	310	100	200	155	8	7	9	138.0	86.0	101.0	2.7	M4 Receptacle	1.0	27.1	455A
PC370^	12	425	200	315	270	15	14	25	200.0	77.0	140.0	5.7	M6 Stud	3.9	13.5	891A
PC535	12	535	200	300	265	14	13	21	170.2	99.1	158.5	5.4	M6 Stud	4.5	8	1000A
PC545MJ	12	460	150	280	220	13	12	18	177.8	85.9	131.3	5.2	M6 Receptacle	5.6	10	1200A
PC625	12	530	200	420	340	18	17	27	170.2	99.1	176.5	6.0	M6 Stud	4.5	7	1800A
PC680P	12	520	170	350	280	16	16	24	184.7	79.0	191.8	7.0	M6 Receptacle†	5.6	7	1800A
PC680MJT	12	520	170	350	280	16	16	24	184.7	79.0	191.8	7.0	M6 Receptacle† or SAE 3/8" Receptacle	5.6	7	1800A
PC925MJT/PC925LMJT	12	900	330	610	480	28	27	48	168.7	179.1	148.1	11.8	M6 Receptacle† or SAE 3/8" Receptacle	6.8	5	2400A
PC950^	12	950	400	600	500	34	32	60	250.0	97.0	156.0	9.0	M6 Stud	3.9	7.1	1700A
PC1100^	12	1100	500	800	650	45	43	87	250.0	97.0	206.0	12.5	M6 Stud	3.9	5.1	2450A
PC1200MJT	12	1200	540	860	725	42	40	78	199.9	169.2	193.0	17.4	M6 Receptacle† or SAE 3/8" Receptacle	6.8	4.5	2600A
PC1220	12	1220	680	960	860	70	64.8	135	278.0	175.0	190.0	20.7	DIN Lead Post	N/A	5.7	2200A
75/86-PC1230DT#	12	1230	760	1050	815	55	50	110	240.3	179.8	201.2	20.6	TOP SAE & SIDE 3/8" Receptacle	6.8	2.5	3100A
PC1350	12	1350	770	1080	960	95	88.5	195	353.0	175.0	190.0	27.4	DIN Lead Post	N/A	4.2	2900A
25-PC1400	12	1400	850	1150	950	65	55	130	240.3	173.7	220.7	22.7	SAE	6.8	2.5	3100A
35-PC1400	12	1400	850	1150	950	65	55	130	240.3	173.7	220.7	22.7	SAE	6.8	2.5	3100A
34/78-PC1500DT#	12	1500	850	1250	1050	68	62	135	275.6	179.8	200.2	22.4	TOP SAE & SIDE 3/8" Receptacle	6.8	2.5	3100A
PC1700MJT	12	1550	810	1325	1175	68	65	142	331.0	168.4	197.6	27.6	M6 Receptacle† or SAE 3/8" Receptacle	6.8	3.5	3500A
65-PC1750	12	1750	950	1350	1070	74	65	145	300.5	182.9	190.5	26.3	SAE	6.8	2.0	5000A
PC1800-FT	12	1800	1300	1600	1450	214	190	475	577.9	125.0	316.0	60.0	3/8" Stud	9.0	3.3	3800A
31-PC2150	12	2150	1150	1545	1370	100	92	205	331.7	175.0	243.6	35.3	3/8" Stud or SAE†	16.9-22.6	2.2	5000A
PC2250	12	2250	1225	1730	1550	126	114	240	286.0	269.0	233.0	39.0	SAE Terminal and 3/8" Stud	11.0 For 3/8" Stud Only	2.1	5000A

\*Cold Start Performance S.A.E J537 JUNE 82

\*\*Pulse Current

† Can be fitted with brass automotive terminal

^ PC370, PC950 and PC1100 also known as Extreme 15, Extreme 30 and Extreme 40 respectively

# Fitted with dual terminals as standard

Optional metal jacket available on PC680P

Operating Temperature Range = PC310 and PC1800-FT: -40°C to 50°C, PC370, PC950 and PC1100: -40°C to 50°C, PC535 and PC625: -40°C to 45°C, PC680P: -40°C to 45°C, PC545MJ, PC680MJT, PC925LMJT, PC925MJT, PC1200MJT and PC1700MJT (with metal jacket): -40°C to 80°C, PC1220, PC1350 and PC2250: -40°C to 40°C, All other models: -40°C to 80°C

BCI models are 75/86-PC1230DT, 25-PC1400, 35-PC1400, 34/78-PC1500DT, 65-PC1750, 31-PC2150

\*Not all models are capable of 80°C

†PC370, PC950 and PC1100 are engine start only. No cycling.

