

ODYSSEY[®] BATTERY

A NEW GENERATION OF BATTERY



AGM²
NON-SPILLABLE TPPL DESIGN
2X + 3X
POWER OF THE LIFE
OF CONVENTIONAL BATTERIES

ODYSSEY[®]
CONNECT 
BATTERY MONITORING SYSTEM

www.odysseybattery.com



Welcome to AGM² TPPL

A new generation of battery for modern power demands

ODYSSEY® AGM² Thin Plate Pure Lead (TPPL) batteries feature 99% pure lead plates that are extremely thin, so more of them fit into the battery. More plates mean more power – ODYSSEY AGM² TPPL batteries deliver twice the power and three times the service life of conventional batteries, outperforming standard Absorbed Glass Mat (AGM) or conventional batteries in terms of power density, fast-charge acceptance, shelf life, durability, and most important – value for your money.

**2X
POWER
+
3X
THE LIFE
OF
CONVENTIONAL
BATTERIES**

Twice the power and three times the life of conventional batteries

AGM² INSIDE

Super high-grade materials + refined electro-chemistry + TPPL = 2X the power and 3X the life.

MASSIVE STARTING POWER

Engine cranking pulses up to 2700 amps for 5 seconds.

EXTENDED CYCLE LIFE

Up to 900 charge-discharge cycles at 50% DOD.

EXTREME TEMPERATURE TOLERANCE

-40°F (-40°C) to 140°F (60°C) for models without a metal jacket, and from -40°F (-40°C) to 176°F (80°C) for models with a metal jacket.

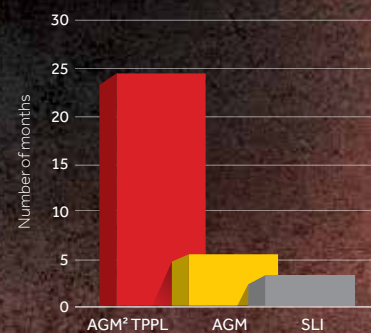
LONGER LIFE

3- to 10-year service life compared to conventional lead acid batteries.

VIBRATION RESISTANT
Protection from high-impact shocks and vibration.

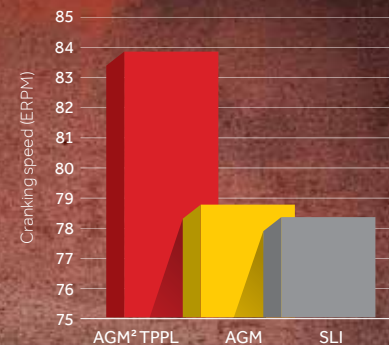
MAINTENANCE-FREE
Sealed ODYSSEY® AGM² TPPL batteries never need water.

More Life



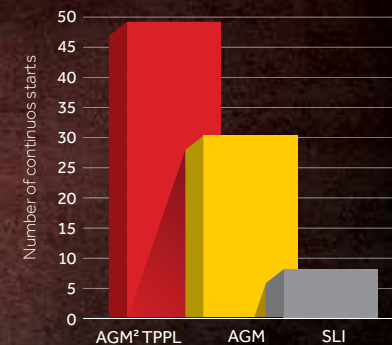
ODYSSEY AGM² TPPL batteries have one of the industry's lowest self-discharge rates, so they hold their charge longer than most batteries.

More Power



ODYSSEY AGM² TPPL batteries have starting power you can rely on, providing up to twice the power of conventional batteries.

More Performance



ODYSSEY AGM² TPPL batteries deliver over 30% more cycle life than other AGM batteries, so you'll enjoy more continuous starts.

- 1 Robust Intercell Connections** resist vibration and ensure stronger internal connections.
- 2 TPPL** design means more plates for more performance and power.
- 3 Compressed AGM Plate Separators** ensure leak-free performance and vibration resistance.
- 4 Upgraded Brass Terminals** for secure, corrosion-free connections (some models plated brass)



Engineered to run stronger and longer

Combining longer cycle life with high energy storage power, the ODYSSEY® Evolution ODX-ACE31 battery is ideal for multi-battery marine systems and for medium- to heavy-duty trucks with hotel loads, Electric Auxiliary Power Units (EAPUs), or other auxiliary equipment. It also comes equipped with the ODYSSEY® Connect battery monitoring system, so battery health and performance can be monitored on any Apple® or Android™ smart device.

- Extended cycle life
- High energy storage and power output
- Exceptional durability
- Smart monitoring



ODYSSEY™ FleetPower Program

Optimizing Performance. Powering Insight.

Most fleets lack visibility into how their batteries perform over time. With the ODYSSEY™ FleetPower program, fleets can pair their real-world battery operating data with a Total Cost of Ownership (TCO) calculator to deliver a customized report to right-size battery selection. The result? Maximized productivity, performance, and profitability.

See battery status on any smart device

Featuring patented* technology, the ODYSSEY Connect battery monitoring system monitors battery State of Charge (SOC), State of Health (SOH), voltage, and temperature. Users can view warnings and safety notifications via Bluetooth® on their Apple® or Android™ smart device, and can also review battery trends to spot performance anomalies.



Scan to download the ODYSSEY Connect App and watch demonstration videos



ODYSSEY® Extreme Batteries

Rated Operating Temperature -40°F (-40°C) to 176°F (80°C) All values shown are nominal unless otherwise noted. 12 volt

PART NUMBER (Old Part Number)	PHCA** 5 sec [A]	CCA* [A]	20 HR Rate [Ah]	Reserve Capacity [Minutes]	Maximum Length [in (mm)]	Maximum Width [in (mm)]	Maximum Total Height [in (mm)]	Maximum Container Height [in (mm)]	Weight [lb (kg)]	Terminal	Maximum Torque [in-lb (Nm)]	Available with ODYSSEY® Connect System	Drawing (Battery Reference Table)
ODX-AGM24 ⁽³⁾ (NSB-AGM24)	1500	840	76	160	10.9 (276)	6.8 (172)	8.8 (222)	8.2 (207)	57.1 (26.0)	SAE	N/A		B
ODX-AGM24F ⁽³⁾ (NSB-AGM24F)	1500	840	76	160	10.9 (276)	6.8 (172)	8.8 (222)	8.2 (207)	57.1 (26.0)	SAE	N/A		A
ODX-AGM27 ⁽³⁾ (NSB-AGM27)	1750	930	92	195	12.5 (317)	6.8 (172)	8.8 (224)	8.2 (207)	67.9 (31.0)	SAE	N/A		B
ODX-AGM27F ⁽³⁾ (NSB-AGM27F)	1750	930	92	195	12.5 (317)	6.8 (172)	8.8 (224)	8.2 (207)	67.9 (31.0)	SAE	N/A		A
ODX-AGM31 ^{(1) (2) (3)} (31-PC2150S)	2150	1150	103	220	13.0 (330)	6.8 (173)	9.5 (241)	8.5 (216)	77.8 (35.5)	3/8-16" Stud	200 (22.6) studs only	ODX-ACE31	F
ODX-AGM31A ^{(1) (3)} (31-PC2150T)	2150	1150	103	220	13.0 (330)	6.8 (173)	9.7 (246)	8.5 (216)	77.8 (35.5)	SAE	N/A		G
ODX-AGM31R ^{(1) (3)} (31R-PC2150S)	2150	1150	103	220	13.0 (330)	6.8 (173)	9.5 (241)	8.6 (218)	77.8 (35.5)	3/8-16" Stud	200 (22.6)		F
ODX-AGM34 ⁽³⁾ (34-PC1500)	1500	850	68	135	10.9 (276)	6.8 (172)	7.9 (202)	7.3 (184)	49.5 (22.5)	SAE	N/A		B
ODX-AGM34R ⁽³⁾ (34R-PC1500)	1500	850	68	135	10.9 (276)	6.8 (172)	7.9 (202)	7.3 (184)	49.5 (22.5)	SAE	N/A		A
ODX-AGM34 78 ^{(1) (3)} (34/78-PC1500)	1500	850	68	135	10.9 (276)	6.8 (172)	7.9 (200)	7.3 (184)	49.5 (22.5)	SAE & Side	60 (6.8) side terminal only		C
ODX-AGM65 ⁽³⁾ (65-PC1750)	1750	950	74	145	11.8 (301)	7.2 (183)	7.5 (190)	6.8 (173)	54.0 (24.5)	SAE	N/A		B
ODX-AGM78 [†] (78-PC1500)	1500	850	68	135	10.9 (276)	6.8 (172)	7.3 (186)	7.3 (186)	49.5 (22.0)	Side	60 (6.8)		D

ODYSSEY® Extreme Batteries – Marine and RV Applications

Rated Operating Temperature -40°F (-40°C) to 176°F (80°C) (ODS Batteries Rated Operating Temperature -40°F (-40°C) to 104°F (40°C)) All values shown are nominal unless otherwise noted. 12 volt

PART NUMBER (Old Part Number)	PHCA** 5 sec [A]	MCA* [A]	20 HR Rate [Ah]	Reserve Capacity [Minutes]	Maximum Length [in (mm)]	Maximum Width [in (mm)]	Maximum Total Height [in (mm)]	Maximum Container Height [in (mm)]	Weight [lb (kg)]	Terminal	Maximum Torque [in-lb (Nm)]	Available with ODYSSEY® Connect System	Drawing (Battery Reference Table)
ODX-AGM24M ⁽³⁾ (NSB-AGM24M)	1500	1000	76	160	10.9 (277)	6.8 (172)	8.8 (224)	8.2 (207)	57.1 (26.0)	SAE and 3/8-16" Stud (Pos.), 5/16-18" Stud (Neg.)	200 (22.6) studs only		E
ODX-AGM27M ⁽³⁾ (NSB-AGM27M)	1750	1080	92	195	12.5 (317)	6.8 (172)	8.8 (224)	8.2 (207)	67.9 (31.0)	SAE and 3/8-16" Stud (Pos.), 5/16-18" Stud (Neg.)	200 (22.6) studs only		E
ODX-AGM31M ⁽³⁾ (NSB-AGM31M)	2150	1370	103	220	13.0 (330)	6.8 (172)	9.9 (252)	8.9 (226)	77.8 (34.0)	SAE and 3/8-16" Stud (Pos.), 5/16-18" Stud (Neg.)	200 (22.6)/100 (11.3) studs only		E
ODX-AGM34M ⁽³⁾ (NSB-AGM34M)	1500	1050	68	135	10.9 (277)	6.8 (172)	7.8 (199)	7.2 (182)	50.9 (23.0)	SAE and 3/8-16" Stud (Pos.), 5/16-18" Stud (Neg.)	60 (6.8) studs only		E
ODX-AGM8DKT ⁽³⁾ (SMS-AGM8DK-S)	3125	2700	228	500	20.5 (521)	11.2 (283)	9.7 (243)	9.4 (237)	187.0 (85.0)	3/8-16" Stud	150 (17)		I
ODS-AGM066FTT ⁴	820	630	39	66	11.9 (302)	3.8 (97)	7.2 (184)	7.2 (184)	28.2 (13.0)	M6 Stud	60 (6.8)		J
ODS-AGM225FTT ⁴	1125	875	114	225	15.6 (396)	4.3 (108)	11.3 (287)	11.3 (287)	71.9 (32.5)	M6 Stud	60 (6.8)		J
ODS-AGM420FTT ⁴	1600	1250	185	420	22.1 (561)	4.9 (125)	11.1 (283)	11.1 (283)	116.0 (52.5)	M6 Stud	80 (9.0)		J
ODS-AGM470FTT ⁴	1800	1450	214	475	22.9 (582)	4.9 (124)	12.5 (318)	12.5 (318)	132.0 (60.0)	3/8-16" Stud	80 (9.0)		J

*Cold Start Performance S.A.E J537 Apr 2016

**Pulse Current

¹ Metal jacket available, increases all nominal dimensions

² SAE terminal adapter available

³ Hold down kit available

⁴ This model is not intended to be operated on its side

[†] Side terminal receptical (add 5/16" (8mm) to container width)

Visit www.odyssseybattery.com for additional product specifications.

Optimize battery performance and life

ODYSSEY® battery chargers efficiently charge ODYSSEY batteries and other 12-volt AGM, flooded lead acid batteries and 12-volt lithium batteries (LiFePO4, Li-Fe, Li-iron, LFP). Offering performance, quality and speed in a rugged casing, ODYSSEY® battery chargers are available in 5 amp, 15 amp and 25 amp models.



DC charging clamps are fast and easy to connect.

ODYSSEY® Evolution Batteries

Rated Operating Temperature -40°F (-40°C) to 176°F (80°C) All values shown are nominal unless otherwise noted.

12 volt

PART NUMBER (Old Part Number)	PHCA** 5 sec [A]	CCA* [A]	20 HR Rate [Ah]	Reserve Capacity [Minutes]	Maximum Length [in (mm)]	Maximum Width [in (mm)]	Maximum Total Height [in (mm)]	Maximum Container Height [in (mm)]	Weight [lb (kg)]	Terminal	Maximum Torque [in-lb (Nm)]	Available with ODYSSEY® Connect System	Drawing (Battery Reference Table)
ODV-ACE31	1650	800	103	220	13.0 (330)	6.8 (173)	9.5 (241)	8.5 (216)	76 (34.5)	3/8-16" Stud	200 (22.6)	Yes	F

ODYSSEY® Performance Batteries

Rated Operating Temperature -40°F (-40°C) to 140°F (60°C) All values shown are nominal unless otherwise noted.

12 volt

PART NUMBER (Old Part Number)	PHCA** 5 sec [A]	CCA* [A]	20 HR Rate [Ah]	Reserve Capacity [Minutes]	Maximum Length [in (mm)]	Maximum Width [in (mm)]	Maximum Total Height [in (mm)]	Maximum Container Height [in (mm)]	Weight [lb (kg)]	Terminal	Maximum Torque [in-lb (Nm)]	Available with ODYSSEY® Connect System	Drawing (Battery Reference Table)
ODP-AGM24 (24-725)	1300	755	63	155	10.9 (276)	6.8 (172)	8.8 (224)	8.2 (207)	51.4 (23.0)	SAE	N/A	ODP-ACE24	B
ODP-AGM24F (24F-725)	1300	755	63	155	10.9 (277)	6.8 (172)	8.8 (224)	8.2 (207)	51.4 (23.0)	SAE	N/A	ODP-ACE24F	A
ODP-AGM25	1200	765	59	117	9.5 (241)	6.9 (175)	8.8 (224)	8.1 (206)	50.0 (23.0)	SAE	N/A		B
ODP-AGM27 (ELT-AGM27)	1500	850	85	182	12.5 (317)	6.8 (172)	8.8 (224)	8.2 (207)	59.7 (27.0)	SAE	N/A	ODP-ACE27	B
ODP-AGM27F (ELT-AGM27F)	1500	850	85	182	12.5 (317)	6.8 (172)	8.8 (224)	8.2 (207)	59.7 (27.0)	SAE	N/A	ODP-ACE27F	A
ODP-AGM31 ^{(1) (3)} (31-925S)	1750	925	100	200	13.0 (330)	6.8 (173)	9.6 (243)	8.6 (220)	69.5 (32.0)	3/8-16" Stud	200 (22.6)		F
ODP-AGM31A ⁽³⁾ (31-925T)	1750	925	100	200	13.0 (330)	6.8 (173)	9.4 (240)	8.6 (220)	69.5 (32.0)	SAE	N/A		F
ODP-AGM34 ⁽³⁾ (34-790)	1500	800	65	130	10.8 (276)	6.8 (172)	7.9 (199)	7.4 (187)	46.6 (21.0)	SAE	N/A		B
ODP-AGM34R ⁽³⁾ (34R-790)	1500	800	65	130	10.8 (275)	6.8 (172)	7.9 (199)	7.4 (187)	46.6 (21.0)	SAE	N/A		A
ODP-AGM35 (35-675)	1200	765	59	117	9.5 (241)	6.9 (175)	8.8 (224)	8.1 (206)	50.0 (23.0)	SAE	N/A		A
ODP-AGM47 H5 L2 (47-650 (LN2-H5)	1150	650	64	105	9.5 (242)	6.9 (175)	7.4 (189)	7.5 (191)	41.9 (19.0)	SAE	N/A		A
ODP-AGM48 H6 L3 (48-720)	1250	760	70	130	10.9 (277)	6.9 (174)	7.4 (189)	7.5 (191)	48.0 (22.0)	SAE	N/A		A
ODP-AGM49 H8 L5 (49-950)	1700	950	95	190	13.9 (353)	6.9 (174)	7.4 (189)	7.5 (191)	62.8 (29.0)	SAE	N/A		A
ODP-AGM65 ^{(1) (3)} (65-760)	1500	762	64	129	11.8 (301)	7.2 (183)	7.6 (192)	6.8 (172)	49.8 (23.0)	SAE	N/A		B
ODP-AGM75 86 [†] (75/86-705)	1100	708	49	89	9.5 (240)	6.8 (172) [†]	7.9 (202)	7.4 (187)	43.4 (20.0)	SAE & Side [†]	60 (6.8) side only		C
ODP-AGM78 [†] (78-790)	1500	800	65	130	10.8 (275)	6.8 (172)	7.4 (187)	7.4 (187)	47.1 (21.0)	Side [†]	60 (6.8)		D
ODP-AGM94R H7 L4 (94R-850)	1500	850	80	155	12.4 (315)	6.9 (174)	7.4 (189)	7.5 (191)	54.8 (25.0)	SAE	N/A		A
ODP-AGM96R (96R-600)	1100	600	52	90	9.5 (242)	6.9 (175)	6.8 (174)	6.9 (176)	40.3 (18.0)	SAE	N/A		A
ODP-AGM4D (4D-1300)	2400	1300	170	370	20.4 (518)	8.8 (223)	8.6 (218)	8.3 (208)	117.0 (53.0)	SAE	N/A		I
ODP-AGM8DT (NSB-AGM8DS)	2700	1450	220	500	20.4 (517)	10.8 (275)	9.5 (242)	8.5 (215)	152.0 (69.0)	3/8-16" Stud; SAE terminal adaptor kit included	200 (22.6) studs only		I

*Cold Start Performance S.A.E J537 Apr 2016

**Pulse Current

¹ Metal jacket available, increases all nominal dimensions

² SAE terminal adapter available

³ Hold down kit available

[†] Side terminal receptical (add 5/16" (8mm) to container width)

ODYSSEY® Battery Accessories

Protect and optimize your ODYSSEY® batteries with these custom-made accessories. Brushed aluminum hold down kits keep batteries in place and are ideal for mounting additional batteries. Metal jackets counteract expansion due to exposure to high temperatures – up to 176°F (80°C) – and keep batteries compressed. Terminal adapter kits are available for a range of applications.

AMER-EN-PG-ODY-0826



Scan to download the
ODYSSEY battery accessories flyer.



ODYSSEY® Performance Batteries – Marine and RV Applications

Rated Operating Temperature -40°F (-40°C) to 140°F (60°C) All values shown are nominal unless otherwise noted.

12 volt

PART NUMBER (Old Part Number)	PHCA** 5 sec [A]	MCA* [A]	20 HR Rate [Ah]	Reserve Capacity [Minutes]	Maximum Length [in (mm)]	Maximum Width [in (mm)]	Maximum Total Height [in (mm)]	Maximum Container Height [in (mm)]	Weight [lb (kg)]	Terminal	Maximum Torque [in-lb (Nm)]	Available with ODYSSEY® Connect System	Drawing (Battery Reference Table)
ODS-AGM6M (PC2250)	2250	1550	126	240	11.3 (286)	10.6 (269)	9.2 (233)	8.2 (208)	86.0 (39.0)	SAE and 3/8-16" Stud	100 (11.0) stud only		H
ODP-AGM24M (ELT-AGM24M)	1300	825	63	155	10.9 (277)	6.8 (172)	8.8 (224)	8.2 (207)	51.4 (23.0)	SAE and 3/8-16" Stud (Pos.), 5/16-18" Stud (Neg.)	200 (22.6) studs only	ODP-ACE24M	E
ODP-AGM27M (ELT-AGM27M)	1500	975	85	182	12.5 (317)	6.8 (172)	8.8 (224)	8.2 (207)	59.7 (27.0)	SAE and 3/8-16" Stud (Pos.), 5/16-18" Stud (Neg.)	200 (22.6) studs only	ODP-ACE27M	E
ODP-AGM31M (ELT-AGM31)	1750	1150	100	200	13.0 (328)	6.8 (173)	10.0 (253)	8.9 (226)	69.5 (31.5)	SAE and 3/8-16" Stud (Pos.), 5/16-18" Stud (Neg.)	200 (22.6)/100 (11.3) studs only		
ODP-AGM34M (ELT-AGM34M)	1500	1000	65	130	10.9 (275)	6.8 (172)	7.8 (201)	7.2 (187)	46.7 (21.5)	SAE and 3/8-16" Stud (Pos.), 5/16-18" Stud (Neg.)	60 (6.8) studs only		E

ODYSSEY® Powersports Batteries

Rated Operating Temperature -40°F (-40°C) to 113°F (45°C) Metal Jacket (MJ) Option increases rated operating temperature to 176°F (80°C)

All values shown are nominal unless otherwise noted.

12 volt

PART NUMBER (Old Part Number)	PHCA** 5 sec [A]	CCA* [A]	20 HR Rate [Ah]	Reserve Capacity [Minutes]	Maximum Length [in (mm)]	Maximum Width [in (mm)]	Maximum Total Height [in (mm)]	Maximum Container Height [in (mm)]	Weight [lb (kg)]	Terminal	Maximum Torque [in-lb (Nm)]	Available with ODYSSEY® Connect System	Drawing (Battery Reference Table)
ODS-AGM8E (PC310)	310	100	8	9	5.4 (138)	3.4 (86)	3.9 (99)	3.9 (99)	5.9 (2.5)	M4 Receptacle	8.9 (1.0)		G
ODS-AGM14 ⁽⁵⁾	575	240	16	24	5.9 (150)	3.5 (89)	5.7 (145)	5.7 (145)	11.9 (5.4)	M6 Receptacle	50.0 (5.6)		B
ODS-AGM15L (PC545)	460	150	13	18	6.9 (177)	3.3 (84)	4.9 (124)	5.1 (130)	11.4 (5.0)	M6 Receptacle	50.0 (5.6)		A
ODS-AGM16L ^{(1) (2) (3)} (PC680)	520	170	16	24	7.2 (182)	3.0 (77)	6.4 (162)	6.6 (168)	15.4 (7.0)	M6 Receptacle	50.0 (5.6)		A
ODS-AGM16CL (PC625)	540	220	18	26	6.7 (170)	3.9 (99)	7.0 (177)	6.9 (177)	13.2 (6.0)	M6 Receptacle	40.0 (4.5)		A
ODS-AGM20L ⁽⁵⁾	700	320	19	31	6.9 (177)	3.5 (89)	6.1 (156)	6.1 (156)	13.0 (5.9)	M6 Receptacle	50.0 (5.6)		A
ODS-AGM28L ^{(1) (2) (3)} (PC925)	900	330	28	48	6.6 (167)	6.9 (177)	4.7 (119)	5.0 (126)	23.8 (11.0)	M6 Receptacle	60.0 (6.8)		A
ODS-AGM28 ^{(1) (2) (3)} (PC925L)	900	330	28	48	6.6 (167)	6.9 (177)	4.7 (119)	5.0 (126)	23.8 (11.0)	M6 Receptacle	60.0 (6.8)		B
ODS-AGM30E (PC950)	950	400	34	60	9.8 (250)	3.8 (97)	6.1 (156)	5.8 (146)	20.0 (9.0)	M6 Stud	35.0 (3.9)		A
ODS-AGM30L ⁽⁵⁾	850	450	32	50	6.7 (170)	5.2 (133)	6.9 (177)	6.9 (177)	20 (9.0)	M6 Receptacle	50.0 (5.6)		A
ODS-AGM40E (PC1100)	1100	500	45	87	9.8 (250)	3.8 (97)	8.1 (206)	7.7 (196)	27.5 (13.0)	M6 Stud	35.0 (3.9)		A
ODS-AGM42LA ^{(1) (2) (3) (4)} (PC1200T)	1200	540	42	78	7.8 (198)	6.5 (166)	7.5 (191)	6.7 (171)	38.2 (17.0)	SAE Post	60.0 (6.8)		A
ODS-AGM42A ^{(1) (2) (3) (4)} (PC1200LT)	1200	540	42	78	7.8 (198)	6.5 (166)	7.5 (191)	6.7 (171)	38.2 (17.0)	SAE Post	60.0 (6.8)		B

*Cold Start Performance S.A.E J537 Apr 2016

**Pulse Current

¹ Metal jacket available, increases all nominal dimensions

² SAE terminal adapter available

³ Hold down kit available

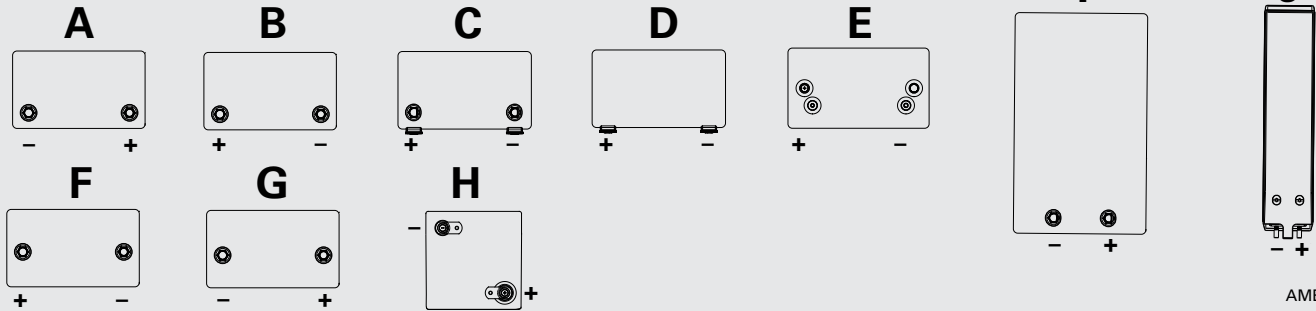
⁴ SAE terminals are removable for applications not needing that style terminal

⁵ Lead-calcium plates

Visit www.odysseybattery.com for additional product specifications.

Battery Terminal Layout Reference Table

Drawing sizes are for terminal position reference only; diagrams are not proportionate to each other.



AMER-EN-PG-ODY-0826

expertise in technologies
combined with **worldwide**
TPPL manufacturing capabilities

Warrensburg, MO
Springfield, MO

Newport, Wales, UK
Arras, France



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