

# ODYSSEY<sup>®</sup> BATTERY

A NEW GENERATION OF BATTERY



**AGM<sup>2</sup>**  
NON-SPILLABLE TPPL DESIGN  
**2X + 3X**  
POWER OF THE LIFE  
OF CONVENTIONAL BATTERIES



**ODYSSEY<sup>®</sup>**  
**CONNECT**   
BATTERY MONITORING SYSTEM

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





# Welcome to AGM<sup>2</sup> TPPL

## A new generation of battery for modern power demands

ODYSSEY® AGM<sup>2</sup> 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 AGM<sup>2</sup> TPPL batteries deliver twice the power and three times the service life of any other conventional battery, outperforming standard AGM or SLI (flooded) 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 any other conventional battery

### AGM<sup>2</sup> 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.

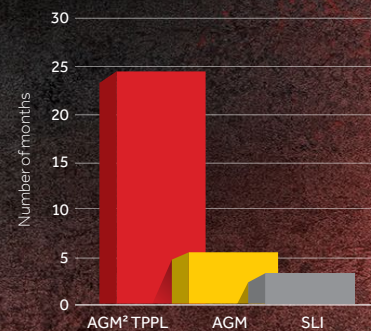
### VIBRATION RESISTANT

Protection from high-impact shocks and vibration.

### MAINTENANCE-FREE

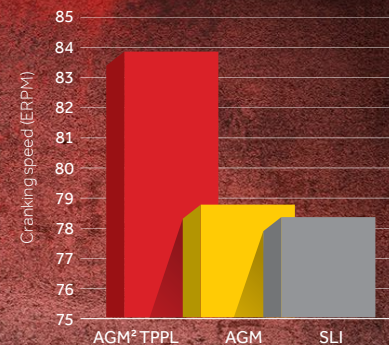
Sealed ODYSSEY AGM<sup>2</sup> TPPL batteries never need water.

### More Life



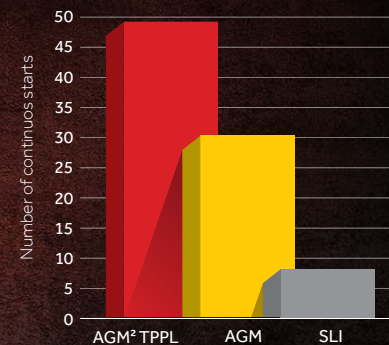
ODYSSEY AGM<sup>2</sup> TPPL batteries have the industry's lowest self-discharge rate, so they hold their charge longer than competitive batteries.

### More Power



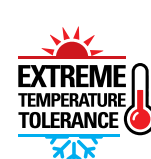
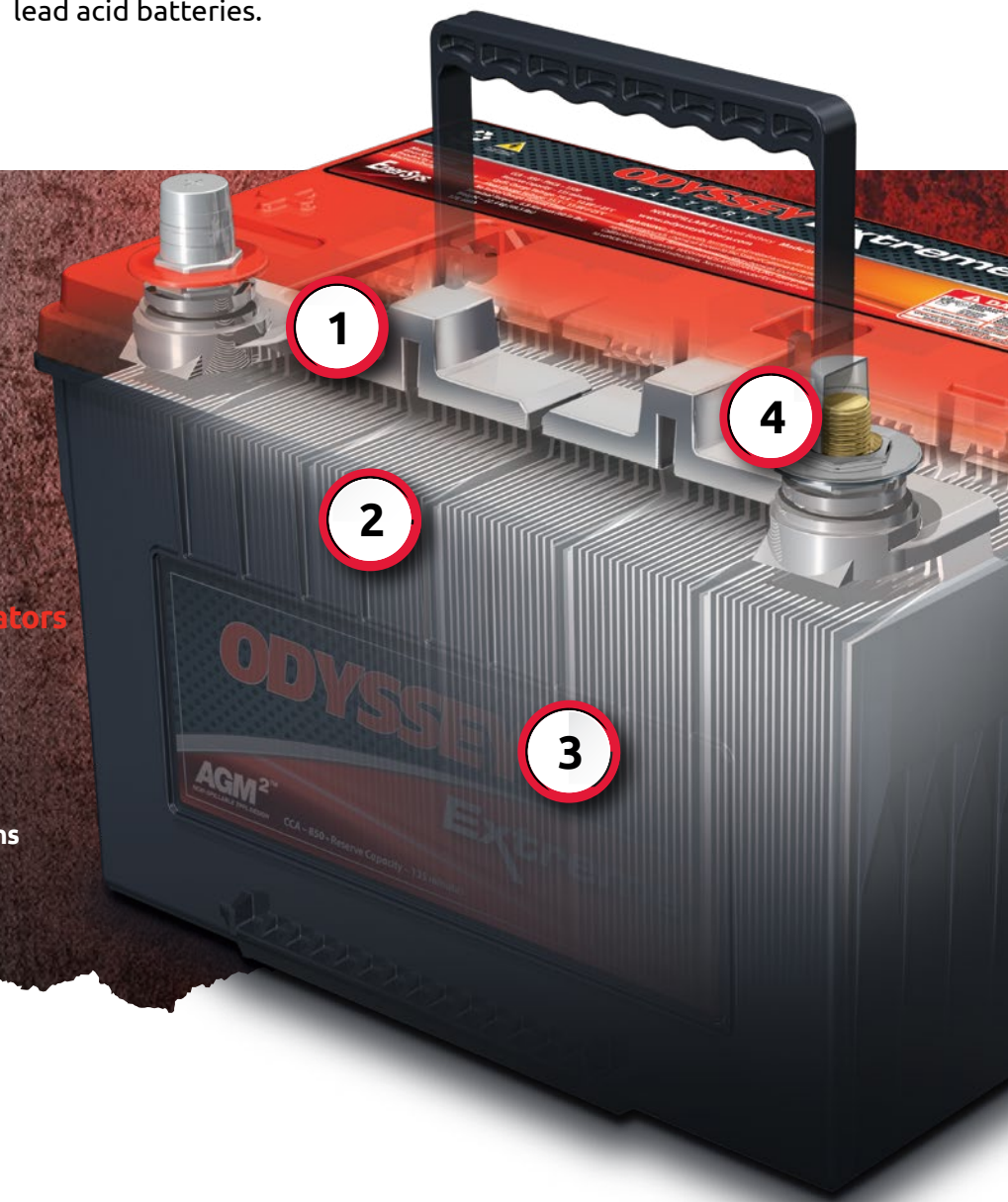
ODYSSEY AGM<sup>2</sup> TPPL batteries have starting power you can rely on, providing up to twice the power of conventional batteries.

### More Performance



ODYSSEY AGM<sup>2</sup> 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 Thin Plate Pure Lead (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)





# The right battery for a range of applications

ODYSSEY® Performance and ODYSSEY Extreme batteries can handle a range of applications and performance demands. Wherever the daily grind takes you, ODYSSEY batteries have the power and endurance to keep you moving.



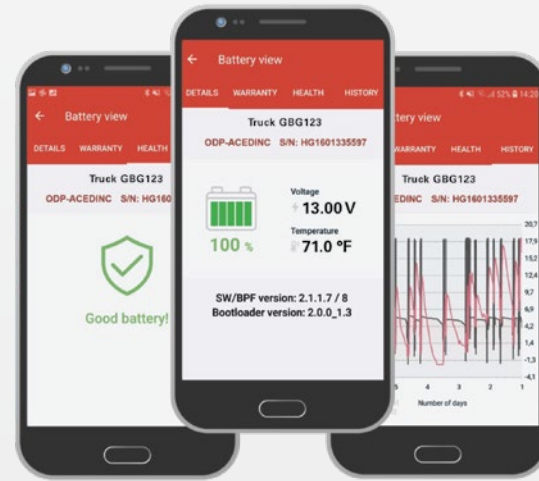
- AUTO TRUCK
- POWERSPORTS
- MARINE
- RECREATIONAL VEHICLES
- FLEET VEHICLES
- HEAVY DUTY
- AUXILIARY APPLICATIONS

## ODYSSEY® CONNECT BATTERY MONITORING SYSTEM

### See battery status on any smart device

Not knowing a battery's true condition can lead to trouble. But with the ODYSSEY® Connect battery monitoring system, you'll be traveling with the market's first "smart" AGM battery, so you can monitor battery health issues long before they spoil the trip.

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

\* For more information on patents, visit [www.odysseybattery.com/patents](http://www.odysseybattery.com/patents)

## 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

NEW 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)
<b>ODX-AGM24</b> <sup>(3)</sup> (NSB-AGM24)	1500	840	76	160	10.9 (276)	6.8 (172)	8.8 (222)	8.2 (207)	57 (26.0)	SAE	N/A		B
<b>ODX-AGM24F</b> <sup>(3)</sup> (NSB-AGM24F)	1500	840	76	160	10.9 (276)	6.8 (172)	8.8 (222)	8.2 (207)	57 (26.0)	SAE	N/A		A
<b>ODX-AGM27</b> <sup>(3)</sup> (NSB-AGM27)	1750	930	92	195	12.5 (317)	6.8 (172)	8.8 (224)	8.2 (207)	68 (31.0)	SAE	N/A		B
<b>ODX-AGM27F</b> <sup>(3)</sup> (NSB-AGM27F)	1750	930	92	195	12.5 (317)	6.8 (172)	8.8 (224)	8.2 (207)	68 (31.0)	SAE	N/A		A
<b>ODX-AGM31</b> <sup>(1) (2) (3)</sup> (31-PC2150S)	2150	1150	103	220	13.0 (330)	6.8 (173)	9.5 (241)	8.5 (216)	78 (35.5)	3/8-16" Stud	200 (22.6) studs only	X	F
<b>ODX-AGM31A</b> <sup>(1) (3)</sup> (31-PC2150T)	2150	1150	103	220	13.0 (330)	6.8 (173)	9.7 (246)	8.5 (216)	78 (35.5)	SAE	N/A		G
<b>ODX-AGM31R</b> <sup>(1) (3)</sup> (31R-PC2150S)	2150	1150	103	220	13.0 (330)	6.8 (173)	9.5 (241)	8.6 (218)	78 (35.5)	3/8-16" Stud	200 (22.6)		F
<b>ODX-AGM34</b> <sup>(3)</sup> (34-PC1500)	1500	850	68	135	10.9 (276)	6.8 (172)	7.9 (202)	7.3 (184)	50 (22.5)	SAE	N/A		B
<b>ODX-AGM34R</b> <sup>(3)</sup> (34R-PC1500)	1500	850	68	135	10.9 (276)	6.8 (172)	7.9 (202)	7.3 (184)	50 (22.5)	SAE	N/A		A
<b>ODX-AGM34 78</b> <sup>(1) (3)</sup> (34/78-PC1500)	1500	850	68	135	10.9 (276)	6.8 (172) <sup>†</sup>	7.9 (200)	7.3 (184)	50 (22.5)	SAE & Side	60 (6.8) side terminal only		C
<b>ODX-AGM65</b> <sup>(3)</sup> (65-PC1750)	1750	950	74	145	11.8 (301)	7.2 (183)	7.5 (190)	6.8 (173)	54 (24.5)	SAE	N/A		B
<b>ODX-AGM78</b> <sup>(3)</sup> (78-PC1500)	1500	850	68	135	10.9 (276)	6.8 (172) <sup>†</sup>	7.3 (186)	7.3 (186)	50 (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

NEW 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)
<b>ODX-AGM24M</b> <sup>(3)</sup> (NSB-AGM24M)	1500	1000	76	160	10.9 (277)	6.8 (172)	8.8 (224)	8.2 (207)	57 (26.0)	M	200 (22.6)/100 (11.3) studs only		E
<b>ODX-AGM27M</b> <sup>(3)</sup> (NSB-AGM27M)	1750	1080	92	195	12.5 (317)	6.8 (172)	8.8 (224)	8.2 (207)	68 (31.0)	M	200 (22.6)/100 (11.3) studs only		E
<b>ODX-AGM31M</b> <sup>(3)</sup> (NSB-AGM31M)	2150	1370	103	220	13.0 (330)	6.8 (172)	9.9 (252)	8.9 (226)	78 (34.0)	M	200 (22.6)/100 (11.3) studs only		E
<b>ODX-AGM34M</b> <sup>(3)</sup> (NSB-AGM34M)	1500	1050	65	134	10.9 (277)	6.8 (172)	7.8 (199)	7.2 (182)	51 (23.0)	M	200 (22.6)/100 (11.3) studs only		E
<b>ODX-AGM8DK</b> <sup>(3)</sup> (SMS-AGM8DK)	3125	2700	228	500	20.5 (521)	11.1 (283)	9.5 (242)	9.3 (237)	187 (85.0)	SAE	N/A		I
<b>ODX-AGM8DKDT</b> <sup>(3)</sup> (SMS-AGM8DK-DT)	3125	2700	228	500	20.5 (521)	11.1 (283)	9.6 (243)	9.3 (237)	187 (85.0)	SAE and Front Stud	N/A		I
<b>ODX-AGM8DKT</b> <sup>(3)</sup> (SMS-AGM8DK-S)	3125	2700	228	500	20.5 (521)	11.1 (283)	9.6 (243)	9.3 (237)	187 (85.0)	3/8-16" Stud	N/A		I

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

\*\*Pulse Current

† Metal jacket available, increases all nominal dimensions

‡ SAE terminal adapter available

§ Hold down kit available<sup>††</sup>

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

## 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

NEW 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)
<b>ODP-AGM24</b> (24-725)	1300	725	63	155	10.9 (276)	6.8 (172)	8.8 (224)	8.2 (207)	51 (23.0)	SAE	N/A		B
<b>ODP-AGM24F</b> (24F-725)	1300	725	63	155	10.9 (277)	6.8 (172)	8.8 (224)	8.2 (207)	51 (23.0)	SAE	N/A		A
<b>ODP-AGM25</b>	1200	765	59	117	9.5 (241)	6.9 (175)	8.8 (224)	8.1 (206)	50 (23.0)	SAE	N/A		B
<b>ODP-AGM27</b> (ELT-AGM27)	1500	850	85	182	12.5 (317)	6.8 (172)	8.8 (224)	8.2 (207)	60 (27.0)	SAE	N/A		B
<b>ODP-AGM27F</b> (ELT-AGM27F)	1500	850	85	182	12.5 (317)	6.8 (172)	8.8 (224)	8.2 (207)	60 (27.0)	SAE	N/A		A
<b>ODP-AGM31</b> <sup>(1)(2)</sup> (31-925S)	1750	925	100	200	13.0 (330)	6.8 (173)	9.6 (243)	8.6 (220)	70 (32.0)	3/8-16" Stud	200 (22.6)		F
<b>ODP-AGM31A</b> <sup>(2)</sup> (31-925T)	1750	925	100	200	13.0 (330)	6.8 (173)	9.4 (240)	8.6 (220)	70 (32.0)	SAE	N/A		F
<b>ODP-AGM34</b> <sup>(2)</sup> (34-790)	1500	792	61	124	10.8 (276)	6.8 (172)	7.9 (199)	7.4 (187)	47 (21.0)	SAE	N/A		B
<b>ODP-AGM34R</b> <sup>(2)</sup> (34R-790)	1500	792	61	124	10.8 (275)	6.8 (172)	7.9 (199)	7.4 (187)	47 (21.0)	SAE	N/A		A
<b>ODP-AGM34 78</b> <sup>(1)(2)</sup> (ELT-AGM34/78)	1300	710	60	120	10.9 (277)	6.8 (173) <sup>†</sup>	7.8 (199)	7.2 (182)	47 (21.0)	SAE & Side <sup>†</sup>	60 (6.8) side only		C
<b>ODP-AGM35</b> (35-675)	1200	765	59	117	9.5 (241)	6.9 (175)	8.8 (224)	8.1 (206)	50 (23.0)	SAE	N/A		A
<b>ODP-AGM47 H5 L2</b> (47-650 (LN2-H5))	1150	650	64	105	9.5 (242)	6.9 (175)	7.4 (189)	7.5 (190)	42 (19.0)	SAE	N/A		A
<b>ODP-AGM48 H6 L3</b> (48-720)	1250	720	69	130	10.9 (277)	6.9 (174)	7.4 (189)	7.5 (191)	48 (22.0)	SAE	N/A		A
<b>ODP-AGM49 H8 L5</b> (49-950)	1700	950	94	180	13.9 (353)	6.9 (174)	7.4 (189)	7.5 (191)	63 (29.0)	SAE	N/A		A
<b>ODP-AGM65</b> <sup>(1)(2)</sup> (65-760)	1500	762	64	129	11.8 (301)	7.2 (183)	7.6 (192)	6.8 (172)	50 (23.0)	SAE	N/A		B
<b>ODP-AGM75 86</b> <sup>†</sup> (75/86-705)	1100	708	49	89	9.5 (240)	6.8 (172) <sup>†</sup>	7.9 (202)	7.4 (20.0)	43 (20.0)	SAE & Side <sup>†</sup>	60 (6.8) side only		C
<b>ODP-AGM78</b> <sup>†</sup> (78-790)	1500	792	61	124	10.8 (275)	6.8 (172)	7.4 (187)	7.4 (187)	47 (21.0)	Side <sup>†</sup>	60 (6.8)		D
<b>ODP-AGM94R H7 L4</b> (94R-850)	1500	840	80	155	12.4 (315)	6.9 (174)	7.4 (189)	7.5 (191)	55 (25.0)	SAE	N/A		A
<b>ODP-AGM96R</b> (96R-600)	1100	600	52	90	9.5 (242)	6.9 (175)	6.8 (174)	6.9 (176)	40 (18.0)	SAE	N/A		A
<b>ODP-AGM4D</b> (4D-1300)	2400	1300	170	370	20.4 (518)	8.8 (223)	8.6 (218)	8.3 (208)	117 (53.0)	SAE	N/A		I
<b>ODP-AGM8D</b> (NSB-AGM8D)	2700	1450	220	500	20.4 (517)	10.8 (275)	9.5 (242)	8.5 (215)	152 (69.0)	SAE	N/A		I
<b>ODP-AGM8DT</b> (NSB-AGM8DS)	2700	1450	220	500	20.4 (517)	10.8 (275)	9.5 (242)	8.5 (215)	152 (69.0)	Stud	200 (22.6)		I

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

\*\*Pulse Current

<sup>†</sup> Metal jacket available, increases all nominal dimensions

<sup>2</sup> SAE terminal adapter available

<sup>3</sup> Hold down kit available<sup>††</sup>

<sup>††</sup> 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.

Visit [www.odysseybattery.com](http://www.odysseybattery.com) for more details



AMER-EN-PG-ODY-0324

## 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

NEW 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)
<b>ODS-AGM6M</b> (PC2250)	2250	1550	126	240	11.3 (286)	10.6 (269)	9.2 (233)	8.2 (208)	86 (39.0)	SAE and 3/8-16" Stud	100 (11.0) stud only		H
<b>ODP-AGM24M</b> (ELT-AGM24M)	1300	825	63	155	10.9 (277)	6.8 (172)	8.8 (224)	8.2 (207)	51 (23.0)	M	200 (22.6)/100 (11.3) studs only		E
<b>ODP-AGM27M</b> (ELT-AGM27M)	1500	975	85	182	12.5 (317)	6.8 (172)	8.8 (224)	8.2 (207)	60 (27.0)	M	200 (22.6)/100 (11.3) studs only		E
<b>ODP-AGM31M</b> (ELT-AGM31)	1750	1150	87	190	12.9 (328)	6.8 (173)	10.0 (253)	8.9 (226)	63 (29.0)	M	200 (22.6)/100 (11.3) studs only		E
<b>ODP-AGM34M</b> (ELT-AGM34M)	1300	810	60	120	10.9 (275)	6.8 (172)	7.8 (201)	7.2 (187)	47 (21.5)	M	200 (22.6)/100 (11.3) 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

NEW 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)
<b>ODS-AGM8E</b> (PC310)	310	100	8	9	5.4 (138)	3.4 (86)	3.9 (99)	3.9 (99)	6 (2.5)	M4 Receptacle	8.9 (1.0)		G
<b>ODS-AGM14</b>	565	220	14	18	5.9 (149)	3.4 (87)	5.7 (146)	5.7 (146)	10 (4.5)	M6 Receptacle	50 (5.6)		B
<b>ODS-AGM15L</b> (PC545)	460	150	13	18	6.9 (178)	3.3 (84)	4.9 (124)	5.1 (130)	11 (5.0)	M6 Receptacle	50 (5.6)		A
<b>ODS-AGM16L</b> <sup>(1)(2)(3)</sup> (PC680)	520	170	16	24	7.2 (182)	3.0 (77)	6.4 (162)	6.6 (168)	15 (7.0)	M6 Receptacle	50 (5.6)		A
<b>ODS-AGM16CL</b> (PC625)	540	220	18	26	6.7 (170)	3.9 (99)	7.0 (177)	6.9 (175)	13 (6.0)	M6 Receptacle	40 (4.5)		A
<b>ODS-AGM20L</b>	675	275	18	24	6.9 (175)	3.4 (86)	6.1 (155)	6.1 (155)	13 (5.9)	M6 Receptacle	50 (5.6)		A
<b>ODS-AGM28L</b> <sup>(1)(2)(3)</sup> (PC925)	900	330	28	48	6.6 (167)	6.9 (176)	4.7 (119)	5.0 (126)	24 (11.0)	M6 Receptacle	60 (6.8)		A
<b>ODS-AGM28</b> <sup>(1)(2)(3)</sup> (PC925L)	900	330	28	48	6.6 (167)	6.9 (176)	4.7 (119)	5.0 (126)	24 (11.0)	M6 Receptacle	60 (6.8)		B
<b>ODS-AGM30E</b> (PC950)	950	400	34	60	9.8 (250)	3.8 (97)	6.1 (156)	5.8 (146)	20 (9.0)	M6 Stud	35 (3.9)		A
<b>ODS-AGM30L</b>	720	400	30	50	6.6 (167)	4.9 (125)	6.9 (174)	6.9 (9.2)	20 (9.0)	M6 Receptacle	50 (5.6)		A
<b>ODS-AGM40E</b> (PC1100)	1100	500	45	87	9.8 (250)	3.8 (97)	8.1 (206)	7.7 (196)	28 (13.0)	M6 Stud	35 (3.9)		A
<b>ODS-AGM42LA</b> <sup>(1)(2)(3)(4)</sup> (PC1200T)	1200	540	42	78	7.8 (198)	6.5 (166)	6.4 (163)	6.7 (171)	38 (17.0)	SAE Post	60 (6.8)		A
<b>ODS-AGM42A</b> <sup>(1)(2)(3)(4)</sup> (PC1200LT)	1200	540	42	78	7.8 (198)	6.5 (166)	6.4 (192)	6.7 (171)	38 (17.0)	SAE Post	N/A		B
<b>ODS-AGM70</b> <sup>(1)(2)(3)</sup> (PC1700)	1550	810	68	142	13.0 (331)	6.6 (168)	6.6 (168)	6.9 (176)	61 (28.0)	M6 Receptacle	60 (6.8)		A
<b>ODS-AGM70S</b> <sup>(1)(2)</sup> (PC1700S)	1550	810	68	142	13.0 (331)	6.6 (168)	7.4 (187)	6.9 (176)	61 (28.0)	5/16-18" Stud	60 (6.8)		A

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

\*\*Pulse Current

<sup>†</sup> Metal jacket available, increases all nominal dimensions

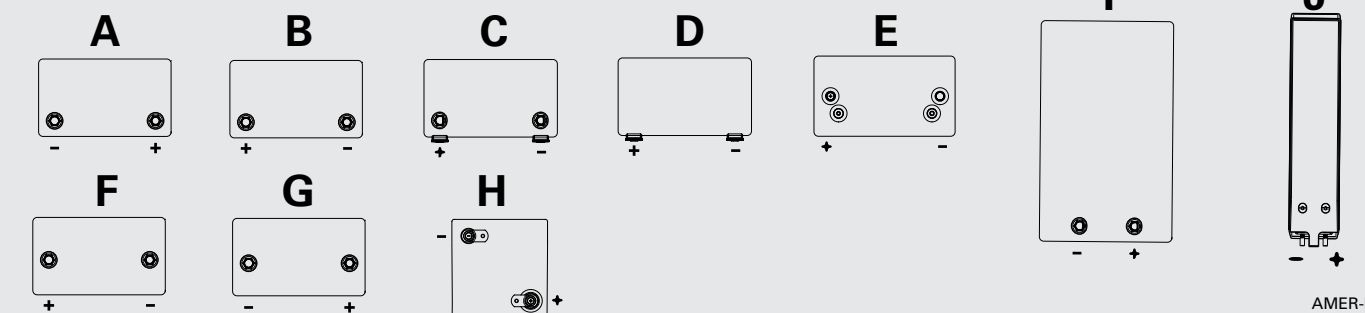
<sup>2</sup> SAE terminal adapter available

<sup>3</sup> Hold down kit available<sup>††</sup>

<sup>4</sup> SAE terminals are removable for applications not needing that style terminal

## Battery Terminal Layout Reference Table

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



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