**PRODUCT GUIDE** 

# ODSSEY" BATTERY

A NEW GENERATION OF BATTERY



eu.odysseybattery.com









## Welcome to

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

### A new generation of battery for modern power demands

ODYSSEY® AGM² Thin Plate Pure Lead (TPPL) batteries feature 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 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.



## Twice the power and three times the life of any other conventional battery

**WIDE TEMPERATURE** 

### 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.

### LONGER LIFE

**TOLERANCE** 

-40°C to +80°C.

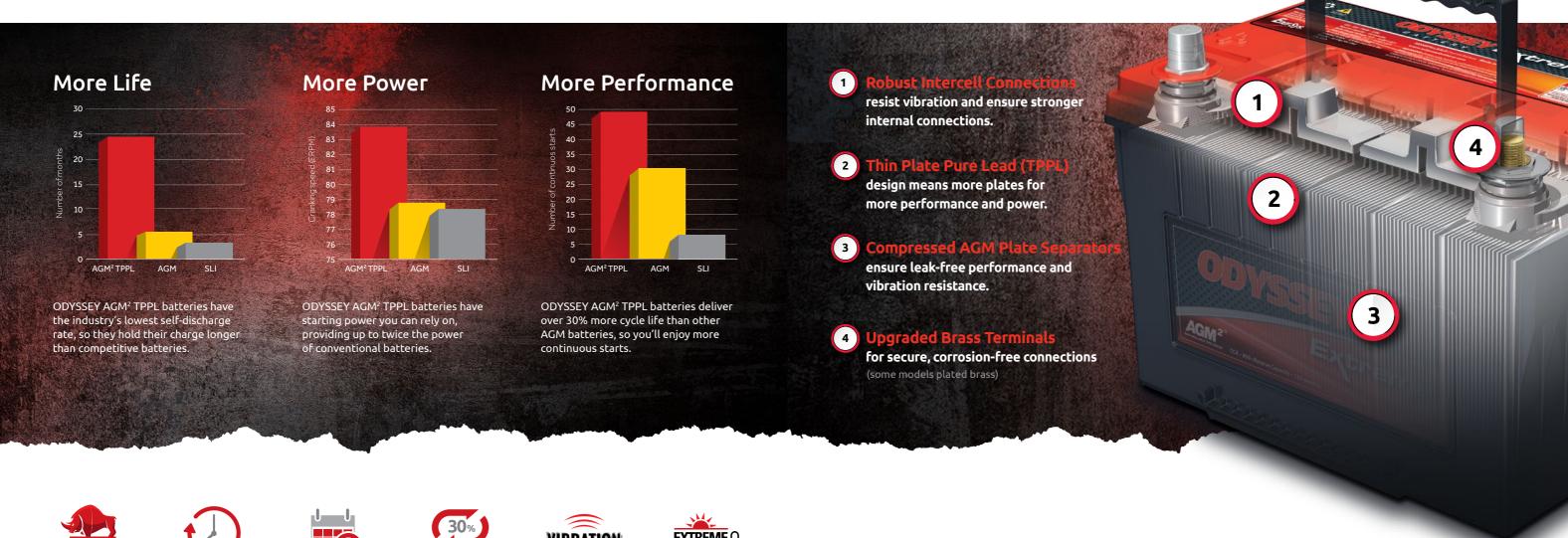
8- to 12-year design life and 3- to 10-year service life compared to conventional lead acid batteries.

### **VIBRATION RESISTANT**

Protection from high-impact shocks and vibration.

### VIRTUALLY MAINTENANCE-FREE

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



2 | EMEA-EN-PG-ODY-0623

**POWER** 



### **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 travelling 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.





Download the
ODYSSEY Connect App
and see demonstration videos

## Check battery health and history anywhere, anytime

### STATE OF CHARGE (SOC)

The ODYSSEY® Connect system captures SOC data and highlights it in graph showing 20% increments over a six-day period.

### STATE OF HEALTH (SOH)

The ODYSSEY Connect system's SOH data is viewable by the user to proactively monitor battery health highs, lows and warnings, which may require corrective actions.

### **VOLTAGE AND TEMPERATURE**

The ODYSSEY Connect system highlights the previous six days of battery voltage and temperature data in a combined graph.

#### **BATTERY HISTORY**

From the first day of battery operation, the ODYSSEY Connect system captures and analyzes battery operating parameter history.



For more information on patents, visit eu.odysseybattery.com/patents

Extreme

## Power to MORK

### Heavy Duty/Professional Vehicles

When you're delivering goods, people or emergency services, virtually maintenance- and worry-free batteries are a must. Field tested in OE vehicles for millions of work hours, ODYSSEY® batteries have the power to get the job done.



### **Heavy Duty and Professional**

Rated Operating Temperature - ODX batteries: -40°C to 80°C; ODP batteries: -40°C to 60°C All values shown are nominal unless otherwise noted.

All values shown are i	ioiiiiiai	uilles	S Othe	I WISE II	oteu.								12 volt
NEW PART NUMBER (Old Part Number)	PHCA** 5 sec [A]	CCA* [A]	20 HR Rate [Ah]	Reserve Capacity [Minutes]	Maximum Length [mm]	Maximum Width [mm]	Maximum Total Height [mm]	Maximum Container Height [mm]	Weight [kg]	Terminal	Maximum Torque [in-lb (Nm)]	Available with ODYSSEY® Connect System	Drawing (Battery Reference Table <sup>4</sup> )
<b>ODX-AGM34</b> <sup>(3)</sup> (34-PC1500)	1500	850	68	135	276	172	202	184	22.5	SAE	N/A		В
ODX-AGM34R (3) (34R-PC1500)	1500	850	68	135	276	172	202	184	22.5	SAE	N/A		Α
ODX-AGM34 78 <sup>†(3)</sup> (34/78-PC1500)	1500	850	68	135	276	180	200	184	22.5	SAE & Side	60 (6.8) side terminal only		С
<b>ODX-AGM78</b> (78-PC1500)	1500	850	68	135	276	180	186	186	22.5	Side	60 (6.8)		D
ODP-AGM48 H6 L3 (48-720)	1250	760	70	140	277	174	189	191	22.0	SAE	N/A		Α
<b>ODX-AGM65</b> <sup>(3)</sup> (65-PC1750)	1750	950	74	145	301	183	190	173	24.5	SAE	N/A		В
ODX-AGM24 (3)	1500	840	76	160	276	172	222	207	26.0	SAE	N/A		В
<b>ODP-AGM94R H7 L4</b> (94R-850)	1500	840	80	155	315	174	189	191	25.0	SAE	N/A		Α
ODX-AGM27	1750	930	92	195	317	172	224	207	31.0	SAE	N/A		В
<b>ODP-AGM49 H8 L5</b> (49-950)	1700	950	95	190	353	174	189	191	29.0	SAE	N/A		Α
<b>ODP-AGM31</b> <sup>(1) (3)</sup> (31-925S)	1750	925	100	200	330	172	243	220	31.5	3/8-16" Stud	200 (22.6)		В
ODP-AGM31A (3) (31-925T)	1750	925	100	200	330	172	240	220	31.5	SAE	N/A		В
ODX-AGM31 (1) (2) (3) (31-PC2150S)	2150	1150	103	205	330	173	241	216	35.3	3/8-16" Stud	200 (22.6) studs only	Х	F
ODX-AGM31A (1) (3) (31-PC2150T)	2150	1150	103	205	330	173	246	216	35.5	SAE	N/A		G
<b>ODX-AGM31R</b> (1) (3) (31R-PC2150S)	2150	1150	103	205	330	173	241	218	35.3	3/8-16" Stud	200 (22.6)		F
<b>ODP-AGMDINB</b> (629-DIN B-1300)	2400	1300	170	370	518	223	218	208	53.2	SAE	N/A		1
ODP-AGMDINC	2300	1250	215	450	517	275	241	241	64.7	SAE	N/A	X	1

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

\*Cold Start Find.......
\*\*Pulse Current

\*\*Pulse Current

1 Metal jacket available, increases all nominal dimensions

2 SAE terminal adapter available

### The right batteries for the toughest jobs

### Construction/Agriculture

**AMBULANCE** 

Contractors and farmers both face harsh outdoor conditions and unforgiving job schedules. Premium ODYSSEY® batteries will deliver reliable starting and reserve power, on-site or in the fields.





### **GenSet Applications**

Loss of utility power can be extremely costly for businesses, data centres and healthcare facilities, which is why mission-critical facilities rely on ODYSSEY® batteries for their emergency generator start (GenSet) applications.



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

<sup>&</sup>lt;sup>4</sup> See "Terminal Positions" on page 15

<sup>†</sup> Side terminal receptical (add 8mm to container width)

## Power to MINI

WE RELY ON ODYSSEY® BATTERIES TO SUPPLY ALL THE POWER NEEDED TO RACE FOR VICTORY

> Hyundai® Motorsport Customer Racing WTCR driver Norbert Michelisz

### Direct OEM replacements available

Three ODYSSEY® battery models are available as OEM replacements for motorcycle, all-terrain vehicle (ATV), utility terrain vehicle (UTV) and watercraft applications. Like all ODYSSEY® batteries, their non-spillable AGM design handles extreme shock and vibration, while their sealed, TPPL technology delivers virtually maintenance-free performance.





The motorsports batteries used by the best to be the best



Rated Operating Temperature -40°C to 50°C Metal Jacket (MJ) Option increases rated operating temperature to 80°C All values shown are nominal unless otherwise noted.

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NEW PART NUMBER (Old Part Number)	PHCA** 5 sec [A]	CCA* [A]	20 HR Rate [Ah]	Reserve Capacity [Minutes]	Maximum Length [mm]	Maximum Width [mm]	Maximum Total Height [mm]	Maximum Container Height [mm]	Weight [kg]	Terminal	Maximum Torque [in-lb (Nm)]	Available with ODYSSEY® Connect System	Drawing (Battery Reference Table <sup>4</sup> )
ODS-AGM8E (PC310)	310	100	8	9	138	86	99	99	2.5	M4 Receptacle	8.9 (1.0)		G
ODS-AGM15L (PC545)	460	150	13	18	178	84	124	130	5.0	M6 Receptacle	50 (5.6)		Α
<b>ODS-AGM16B</b> (PC535)	535	200	14	21	170	99	159	157	5.5	M6 Receptacle	40 (4.5)		В
ODS-AGM14	565	220	14	18	149	87	146	146	4.7	M6 Receptacle	50 (5.6)		В
<b>ODS-AGM16L</b> (1) (2) (3) (PC680)	520	170	16	24	182	77	162	168	7.0	M6 Receptacle	50 (5.6)		Α
ODS-AGM16CL (PC625)	540	220	18	26	170	99	177	175	6.0	M6 Receptacle	40 (4.5)		Α
ODS-AGM20L	675	275	18	24	174	87	155	155	5.9	M6 Receptacle	50 (5.6)		Α
<b>ODS-AGM28</b> (1) (2) (3) (PC925L)	900	330	28	48	167	176	119	126	11.0	M6 Receptacle	60 (6.8)		В
<b>ODS-AGM28L</b> (1) (2) (3) (PC925)	900	330	28	48	167	176	119	126	11.0	M6 Receptacle	60 (6.8)		Α
ODS-AGM30L	720	400	30	50	166	125	174	174	9.2	M6 Receptacle	50 (5.6)		Α
<b>ODS-AGM30E</b> (PC950)	950	400	34	60	250	97	156	146	9.0	M6 Stud	35 (3.9)		Α
<b>ODS-AGM42</b> (1) (2) (3) (PC1200L)	1200	540	42	78	198	166	192	171	17.0	M6 Receptacle	N/A		В
<b>ODS-AGM42L</b> (1) (2) (3) (PC1200)	1200	540	42	78	198	166	163	171	17.0	M6 Receptacle	60 (6.8)		Α
<b>ODS-AGM42LA</b> (1) (2) (3) (PC1200T)	1200	540	42	78	198	166	163	171	17.0	M6 Receptacle	60 (6.8)		Α
<b>ODS-AGM40E</b> (PC1100)	1100	500	45	87	250	97	206	196	12.5	M6 Stud	35 (3.9)		Α
<b>ODS-AGM70</b> (1) (2) (3) (PC1700)	1550	810	68	142	331	168	168	176	28.0	M6 Receptacle	60 (6.8)		Α
ODS-AGM70A (PC1700T)	1550	810	68	142	331	168	177	175	27.6	SAE	N/A		Α

<sup>\*</sup>Cold Start Performance S.A.E J537 Apr 2016

Metal jacket available, increases all nominal dimensions
 SAE terminal adapter available

<sup>&</sup>lt;sup>3</sup> Hold down kit available<sup>H1</sup> <sup>4</sup> See "Terminal Positions" on page 15

## Power to DRIVE

### More power to stay on the road longer

### Automotive

Today's autos, sport utility vehicles (SUVs), trucks and light commercial vehicles are loaded with more electronics than ever before. But ODYSSEY® batteries can handle it and still deliver big starting power, plus three times the life of conventional batteries.



### Van/Light Commercial Vehicle

ODYSSEY® batteries can help Van/Light Commercial vehicle operators face extreme conditions and workloads. By combining super-high-grade materials, refined Electro-Chemistry and the latest TPPL manufacturing technology, ODYSSEY® batteries can handle temperatures from -40°C to 60°C.

### Aux/EV

For vehicles with extreme auxiliary or plug-in power demands, ODYSSEY® batteries are available for auxiliary power applications.



Automotive, Light Commercial Vehicle and Aux/EV

Rated Operating Temperature -40°C to 60°C

All values shown are nominal unless otherwise noted.

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All values shown are no	Jiiiiiai	uilles	S Othe	i wise ii	oteu.								12 Voit
NEW PART NUMBER (Old Part Number)	PHCA** 5 sec [A]	CCA* [A]	20 HR Rate [Ah]	Reserve Capacity [Minutes]	Maximum Length [mm]	Maximum Width [mm]	Maximum Total Height [mm]	Maximum Container Height [mm]	Weight [kg]	Terminal	Maximum Torque [in-lb (Nm)]	Available with ODYSSEY* Connect System	Drawing (Battery Reference Table <sup>4</sup> )
ODS-AGM8E (PC310)	310	100	8	9	138	86	99	99	2.5	M4 Receptacle	8.9 (1.0)		G
ODS-AGM14	565	220	14	18	149	87	146	146	4.7	M6 Receptacle	50 (5.6)		В
<b>ODP-AGM75 86</b> <sup>†</sup> (75/86-705)	1100	708	49	89	240	172†	202	187	20.0	SAE & Side <sup>†</sup>	60 (6.8) side only		С
<b>ODP-AGM96R</b> (96R-600)	1100	600	52	90	242	175	174	176	18.0	SAE	N/A		Α
ODP-AGM25	1200	765	59	117	241	175	219	202	21.0	SAE	N/A		В
<b>ODP-AGM35</b> (35-675)	1200	765	59	117	241	175	219	202	21.0	SAE	N/A		Α
<b>ODP-AGM34</b> (3) (34-790)	1500	792	61	124	276	172	199	187	21.0	SAE	N/A		В
<b>ODP-AGM34R</b> <sup>(3)</sup> (34R-790)	1500	792	61	124	275	172	199	187	21.0	SAE	N/A		Α
<b>ODP-AGM78</b> <sup>†</sup> (78-790)	1500	792	61	124	275	172	187	187	21.0	Side †	60 (6.8)		D
<b>ODP-AGM24</b> (24-725)	1300	755	63	155	276	172	224	207	23.0	SAE	N/A		В
<b>ODP-AGM24F</b> (24F-725)	1300	755	63	155	277	172	224	207	23.0	SAE	N/A		Α
<b>ODP-AGM47 H5 L2</b> (47-650 (LN2-H5)	1150	650	64	105	242	175	189	190	19.0	SAE	N/A		Α
<b>ODP-AGM65</b> (1) (3) (65-760)	1500	762	64	129	301	183	192	172	23.0	SAE	N/A		В
<b>ODP-AGM48 H6 L3</b> (48-720)	1250	760	70	140	277	174	189	191	22.0	SAE	N/A		Α
<b>ODP-AGM94R H7 L4</b> (94R-850)	1500	840	80	155	315	174	189	191	25.0	SAE	N/A		Α
<b>ODP-AGM27</b> (ELT-AGM27)	1500	850	85	182	317	172	224	207	27.0	SAE	N/A		В
<b>ODP-AGM27F</b> (ELT-AGM27F)	1500	850	85	182	317	172	224	207	27.0	SAE	N/A		Α
<b>ODP-AGM49 H8 L5</b> (49-950)	1700	950	95	190	353	174	189	191	29.0	SAE	N/A		Α

<sup>\*</sup>Cold Start Performance S.A.E J537 Apr 2016

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<sup>&</sup>lt;sup>1</sup> Metal jacket available, increases all nominal dimension

<sup>&</sup>lt;sup>4</sup> See "Terminal Positions" on page 15

# Power to ENCOY

Worry-free batteries built for peace of mind





### **Recreational Vehicles**

When you're out in the wilderness, having batteries you can trust is essential. Ready for dual-purpose RV demands, ODYSSEY® batteries will be there to start your engine, your coffee machine, or whatever the day requires.



### 2-year shelf life

Whether you're heading back onto the water or into the woods, you want a battery that's ready to go when you are, even after sitting idle for a long time. ODYSSEY® batteries have an exceptional shelf life - up to two years stored at 25°C, and even longer at cooler temperatures.

### Marine and Leisure – ODYSSEY® Extreme Batteries

Rated Operating Temperature -40°C to 80°C (ODS Batteries Rated Operating temperature -40°C to 50°C)

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T NUMBER Number)	PHCA** 5 sec	MCA* [A]	Rate	Reserve Capacity		Maximum Total Height	Maximum Container Height	Weight [kg]	Terminal	Maximum Torque [in-lb (Nm)]	Availa ODY

NEW PART NUMBER (Old Part Number)	PHCA** 5 sec [A]	MCA* [A]	20 HR Rate [Ah]	Reserve Capacity [Minutes]	Maximum Length [mm]	Maximum Width [mm]	Maximum Total Height [mm]	Container Height [mm]	Weight [kg]	Terminal	Maximum Torque [in-lb (Nm)]	Available with ODYSSEY® Connect System	(Battery Reference Table <sup>4</sup> )
<b>ODX-AGM34M</b> (34M-PC1500)	1500	1050	65	134	277	172	199	182	23.0	М	200 (22.6)/100 (11.3) studs only		E
ODX-AGM65M (NSB-AGM65M)	1750	1070	69	135	300	186	193	173	25.0	М	200 (22.6)/100 (11.3) studs only		E
ODX-AGM24M (NSB-AGM24M)	1500	1000	76	160	277	172	224	207	26.0	М	200 (22.6)/100 (11.3) studs only		E
ODX-AGM27M (NSB-AGM27M)	1750	1080	92	195	317	172	224	207	31.0	М	200 (22.6)/100 (11.3) studs only		Е
<b>ODX-AGM31M</b> (31M-PC2150)	2150	1370	103	220	330	172	252	226	34.0	М	200 (22.6)/100 (11.3) studs only		E
<b>ODS-AGM6M</b> (PC2250)	2250	1550	126	240	286	269	233	208	39.0	SAE and 3/8-16" Stud	100 (11.0) stud only		Н
ODS-AGM470FTT (PC1800-FT)	1800	1450	214	475	581	125	317	317	60.0	3/8-16" Stud	80 (9.0)		J

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

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

### Marine and Leisure – ODYSSEY® Performance Batteries

Rated Operating Temperature -40°C to 60°C

All values shown are nominal unless otherwise noted

All values shown are	Hommai	uilles	S Othic	ei wise ii	oteu.								12 VOIT
NEW PART NUMBER (Old Part Number)	PHCA** 5 sec [A]	MCA* [A]	20 HR Rate [Ah]	Reserve Capacity [Minutes]	Maximum Length [mm]	Maximum Width [mm]	Maximum Total Height [mm]	Maximum Container Height [mm]	Weight [kg]	Terminal	Maximum Torque [in-lb (Nm)]	Available with ODYSSEY* Connect System	Drawing (Battery Reference Table <sup>4</sup> )
<b>ODP-AGM34M</b> (34M-790)	1500	1000	62	125	275	172	201	187	21.5	М	200 (22.6)/100 (11.3) studs only		E
<b>ODP-AGM31M</b> (31M-925)	1750	1150	92	190	330	173	240	220	29.0	M	200 (22.6)/100 (11.3) studs only		Е
<b>ODP-AGMDINB</b> (629-DIN B-1300)	2400	1300	170	370	518	223	218	208	53.0	SAE	N/A		1
ODP-AGMDINC	2300	1250	215	450	517	275	241	241	64.7	SAE	N/A	x	ı

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12 volt

<sup>\*\*</sup>Pulse Current
4 See "Terminal Positions" on page 15

### **ODYSSEY®** Battery Accessories

### **METAL JACKETS**

Designed to counteract the expansion that occurs when ODYSSEY® batteries are exposed to high temperatures (up to 80°C), these metal jackets keep the batteries compressed and performing optimally. Metal jackets also provide added protection from rocks and debris, especially for batteries mounted in frames with an exposed base.

### Available for these ODYSSEY® battery models:

PC545/ODS-AGM15LMJ, PC680/ODS-AGM16LMJ, PC925/ODS-AGM28LMJA, 31-PC2150S/ODX-AGM31MJ, PC1200/ODS-AGM42LMJ, PC1700/ODS-AGM70MJ

### **HOLD DOWN KITS**

Featuring a polished aluminium finish, these custom-made hold down kits are ideal when an application requires additional batteries to be mounted.

### Available for these ODYSSEY® battery models:

PC680/ODS-AGM16L, PC925L/ODS-AGM28, PC925/ODS-AGM28L, PC1200L/ODS-AGM42, PC1200/ODS-AGM42L, PC1200T/ODS-AGM42LA, PC1700/ODS-AGM70, PC1700T/ODS-AGM70A

31-925S/ODP-AGM31, 31-925T/ODP-AGM31A, 31M-925/ODP-AGM31M, 34-790/ODP-AGM34, 34R-790/ODP-AGM34R, 78-790/ODP-AGM78, 34M-790/ODP-AGM34M, 65-760/ODP-AGM65

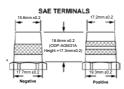
31-PC2150S/ODX-AGM31, 31-PC2150T/ODX-AGM31A, 31R-PC2150S/ODX-AGM31R, 34-PC1500S/ODX-AGM34, 34R-PC1500T/ODX-AGM34A, 34R-PC1500/ODX-AGM34R, 34M-PC1500/ODX-AGM34M, 78-PC1500/ODX-AGM34 78, 78-PC1500/ODX-AGM78, 65-PC1750/ODX-AGM65.

Please note: Hold Down Kits **do not** fit metal jacket batteries.

### **TERMINAL TYPES EXPLAINED**

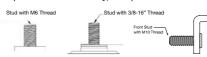
### SAF AND DIN POSTS

These are posts in the shape of truncated cones with slightly different diameters to indicate polarity, as in the



#### STUD POSTS

These terminals have a stud post with various threads as specified for each battery, examples below



#### M6 AND M4 FEMALE THREAD

This type of terminal consists of a female thread which can take various adapters/terminals with an M6 or M4



#### SAE 3/8-16" FEMALE THREAD This is an SAE post which can

he installed on female M6 terminals. The SAE post has a 3/8 16" female threaded insert

auxiliary items



### TERMINAL ADAPTOR KITS

### Stud Adaptor (0220-0888) 5/16" Stud Adaptor with wing nuts

For use with: PC545/ODS-AGM15L, PC680/ODS-AGM16L, PC925/ODS-AGM28L, PC1200/ODS-AGM42L and PC1700/ODS-AGM70



### Adaptor Kit (2301-0329) 90° "L" Bracket

For use with: PC545/ODS-AGM15L, PC680/ODS-AGM16L, PC925/ODS-AGM28L, PC1200/ODS-AGM42L and PC1700/ODS-AGM70



### **SAE Terminal Kit (3217-0006)**

For use with: PC545/ODS-AGM15L, PC680/ODS-AGM16L, PC925/ODS-AGM28L, PC1200/ODS-AGM42L and PC1700/ODS-AGM70



### Marine Terminal Kit (2301-0439) 5/16" and 3/8" nuts and washers 💩 🖤

For use with: 34M-790/ODP-AGM34M, 31M-925/ODP-AGM31M, 34M-PC1500/ODX-AGM34M and 31M-PC2150/ODX-AGM31M



### PC2150/ODX-AGM31 SAE Kit (3217-0049)

For use with: 31-PC2150S/ODX-AGM31



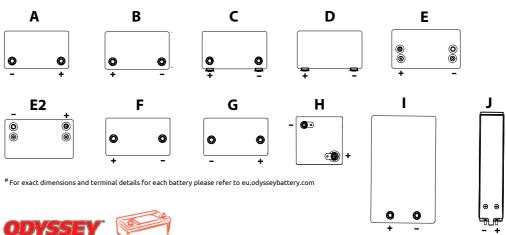
### SAE Terminal Kit – 6mm (3217-0073)

For use with: PC370/ODS-AGM15E, PC950/ODS-AGM30E and PC1100/ODS-AGM40E



### **TERMINAL POSITIONS**

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



### TRAINING RESOURCES AVAILABLE FROM ODYSSEY BATTERY EXPERTS!

The ODYSSEY Battery Academy is a resource for you to learn more about ODYSSEY battery technologies and the latest technology trends in the battery industry. With a library of videos and professional training questionnaires, your team can continue to grow its knowledge base and understanding in a convenient way.

Ask your ODYSSEY battery representative about the ODYSSEY Battery Academy today.





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