



AUTOMOTIVE STARTING BATTERIES

PREMIUM POWER - PERFORMANCE BEYOND EXPECTATION

Premium automotive batteries offer a top performance choice for maintenance-free products for cars, light trucks, and SUVs. The most advanced computerized equipment, stringent quality testing, finest raw material components, and special design features have been incorporated throughout the entire battery design to deliver maximum reliability, longevity, and cranking performance.

FLUSH COVER DESIGN

- Enhances overall battery performance, maintenance, safety, and convenience

FORTIFIED POSTS, STRAPS, & WELDS

- Resist vibration damage, maximize current transfer

ENHANCED CRYSTALLIZATION OF PLATES

- Provide more power-per-pound and enhanced maintenance-free life

SHORT-PROTECTOR SEPARATORS

- Thicker backweb material prevents plate-to-plate shorts

ULTRA-PURE DEMINERALIZED ELECTROLYTE

- Precision filling process ensures exacting levels for extended life

OPTIMIZED POWER PLATES

- Full-frame positive and negative plates prevent life robbing electrical shorts from exposed wire
- Maximize power and energy storage capacity





MARINE/RV DEEP CYCLE BATTERIES

TRUE DEEP CYCLE POWER

Marine & RV Deep Cycle batteries deliver the long, slow discharge of power necessary to run trolling motors, heavy marine accessory loads, or demanding RV house power. Built-in protection against deep discharge damage provides added resistance against the rigorous wear of continual deep cycle use, such as extended trolling or travel. These batteries also deliver moderate power for starting.

MORE FISH-FINDING, TROLLING AND ACCESSORY POWER

- Designed for the long, slow discharges of deep cycle service

RUGGED VIBRATION RESISTANT CONSTRUCTION

- Reinforced internal design withstands wave-pounding vibration

BUILT-IN PROTECTION AGAINST DEEP DISCHARGE DAMAGE

- Heavier plates and fiberglass mat resist negative effects of demanding deep cycle use

STAINLESS STEEL TERMINAL AND SAE POST

- Corrosion-resistant with dual terminal connections

CONVENIENT HANDLE

- Significantly improves ease of transportation and installation



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MARINE/RV DUAL PURPOSE BATTERIES

STARTING & CYCLING

In many instances, one type of power just isn't enough to meet the multiple demands of typical marine needs. Dual purpose batteries are the ideal compromise between high starting and moderate deep cycle service. Delivering more power-per-pound with reinforced components, they provide longer cycling service than starting batteries, which means more accessory power for longer.

MORE FISH-FINDING, TROLLING AND ACCESSORY POWER

- Designed for the long, slow discharges of deep cycle service

HIGH STARTING AND DEEP CYCLE CAPABILITY

- Designed for quick cranking and deep cycle service

RUGGED VIBRATION RESISTANT CONSTRUCTION

- Reinforced internal design withstands wave-pounding vibration

BUILT-IN PROTECTION AGAINST EXTENDED CYCLING DAMAGE

- Heavier plates resist negative effects of demanding cycling use

STAINLESS STEEL TERMINAL AND SAE POST

- Corrosion-resistant with dual terminal connections

CONVENIENT HANDLE

- Significantly improves ease of transportation and installation





MARINE STARTING BATTERIES

HIGH CRANKING POWER WITH TOUGH MARINE PERFORMANCE

Boats get out in the water faster with the Marine quick cranking, high-powered starting batteries. Built with a durable maintenance-free design, these high amp batteries are made to maximize boating convenience with quality and power. Special design features ensure that this no-hassle premium performance continues start after start.

HIGH STARTING CAPABILITY

- Quickly brings even the toughest boat engines to life

RUGGED VIBRATION RESISTANT CONSTRUCTION

- Reinforced internal design withstands wave-pounding vibration

FLUSH COVER, MAINTENANCE-FREE DESIGN

- Battery top stays clean with no electrolyte maintenance required

STAINLESS STEEL TERMINAL AND SAE POST

- Corrosion-resistant with dual terminal connections

CONVENIENT HANDLE

- Significantly improves ease of transportation and installation



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POWER SPORTS BATTERIES

ADVANCED AGM DESIGN FOR ALL YOUR POWER SPORTS NEEDS

Absorbed glass mat (AGM) batteries offer superior maintenance-free performance ideal for power sports vehicles like ATVs, motorcycles, personal watercraft and snowmobiles. Its advanced features and AGM design allow easy installation without the hassles of initial activation or acid filling, avoiding time consuming maintenance. Completely spill proof and leak proof with added vibration resistance, these batteries increase performance, service life and safety with plenty of quick-starting AGM power.

ADVANCED AGM TECHNOLOGY

- No filling or activation for quick, hassle free installation

MAINTENANCE-FREE

- Eliminates low water levels and time consuming maintenance

COMPLETELY SEALED SPILL PROOF AND LEAK PROOF DESIGN

- Protects expensive equipment and the environment

LOW SELF-DISCHARGE RATE

- Dependable power from season to season

VIBRATION RESISTANT

- Durable use for off-road recreation

MOLDED TOP AND SIDE CONNECTION TERMINALS

- Provide versatility, strength and reliability

FLEXIBLE DESIGN

- Can be installed in almost any position (upside-down not recommended)





LAWN & GARDEN BATTERIES

TOUGH ENOUGH FOR ALL YOUR OUTDOOR POWER NEEDS

These maintenance-free Lawn & Garden batteries have all of the cranking amps necessary to power tractors and other small utility vehicles across the roughest terrain. Their easy-to-install, flush cover design fits better for a garden tractor replacement. A tough exterior case and cover is ideal for outdoor use resisting damage, even under the roughest conditions. Side vents eliminate acid leaks up to a 45° tilt and keep the battery top dry and corrosion-free. Built to maximize convenience and extend performance, these Lawn & Garden batteries have the quality and dependable starting power that lasts from season to season.

ELECTRICAL SHORT PREVENTION SYSTEM

- Protects power-producing components from life-robbing electrical shorts

VIBRATION RESISTANCE DESIGN

- Reinforced posts, straps, and welds withstand demanding conditions

MAINTENANCE-FREE, FLUSH COVER DESIGN

- Maximizes convenience, minimizes water loss for extended operation

OPTIMIZED POWER, FULL-FRAMED PLATES

- Better withstands severe service demands while optimizing current transfer

TOUGH POLYPROPYLENE CASE AND COVER

- Resist external damage from tough outdoor use

SIDE, SAFETY VENT SYSTEM

- Prevents acid leaks up to a 45° tilt keeping battery dry and corrosion-free



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GOLF CART/EV BATTERIES

A WHOLE LOT OF POWER IN ONE GOLF CART BATTERY

These golf cart/electric vehicle batteries won't leave you "putting" along. Enjoy more time "in the green" with our high-capacity deep cycle batteries. Critical product steps are computer controlled for accuracy, consistency and longest life.

ERGONOMIC LIFT HANDLE

- Allows for easier installation

INTEGRATED "TWIST AND RELEASE" VENT CAP SYSTEM

- Releases vent caps in a single motion, making maintenance a snap

BULGE-RESISTANT POLYPROPYLENE HEAVY DUTY CASE

- Stabilizes and protects the groups for longer life

HIGH-DENSITY OXIDE PASTE

- Produces more energy per pound and longer cycle life

THICKER PLATE STRAPS

- Lower resistance, provide better performance and extend life

GLASS MAT, DUAL-INSULATION "DEEP POCKET" ENVELOPE SEPARATORS

- Decrease internal resistance, increasing power. Protect plates and lock active material to the grid to retard shedding and prevent shorts. Glass fibres strengthen plates.

THREE TERMINAL CONFIGURATIONS

- Fit virtually any application

MORE THAN 250 QUALITY CONTROL CHECKS

- Guarantee superior performance... every time!





COMMERCIAL STARTING BATTERIES
FOR FAST RELIABLE STARTS & LONGER SERVICE LIFE!

- All HD Plus Commercial Starting Batteries are constructed using calcium, maintenance-free lead alloy plates.
- Optimized power full-frame plates ensure fast, instant starts and longer service life.
- Micro-porous, narrow-ribbed envelope separators with deep pockets improve reliability and extend battery life.

PART NO.	CCA	RC	MAXIMUM OVERALL DIMENSIONS (IN & MM)						APPROX. WEIGHT (LBS)	SUGGESTED WARRANTY	
			LENGTH		WIDTH		HEIGHT			FREE REPLACEMENT PERIOD (MONTHS)	WARRANTY PERIOD (MONTHS)
			IN	MM	IN	MM	IN	MM			
31SHD	1060	190	13	330	6-3/4	171	9-1/2	241	61	12	36
31SPLUS	1000	190	13	330	6-3/4	171	9-1/2	241	58	12	30
31S	950	175	13	330	6-3/4	171	9-1/2	241	56.5	12	30
31SVL	650	130	13	330	6-3/4	171	9-1/2	241	56.5	12	30

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SYSTEM APPLICATIONS

31S, 31SPLUS, 31SHD, 31SVL

Line haul, day cab, vocational, P&D under 20 stops per day and many other applications with 5 amp key off load or below.

NOTE: Over 5 amp key off load recommend LVD





COMMERCIAL STARTING BATTERIES (continued)

FOR FAST RELIABLE STARTS & LONGER SERVICE LIFE! (continued)

PART NO.	CCA	RC	MAXIMUM OVERALL DIMENSIONS (IN & MM)						APPROX. WEIGHT (LBS)
			LENGTH		WIDTH		HEIGHT		
			IN	MM	IN	MM	IN	MM	
30HHD	925	170	13	330	6-3/4	171	9-1/2	241	57.5
31S, 31P	950	175	13	330	6-3/4	171	9-1/2	241	56.5
31SPLUS, 31PPLUS	1000	185	13	330	6-3/4	171	9-1/2	241	58
31SHD, 31PHD	1125	195	13	330	6-3/4	171	9-1/2	241	61
31SVL	700	120	13	330	6-3/4	171	9-1/2	241	56.5
4DHD	1050	290	20-3/4	527	8-1/2	216	10-1/8	258	99.5
4DLT	850	240	20	508	8-1/8	206	8-1/8	206	80
4HDMF	975	250	12-1/2	318	6-7/8	175	9-1/2	241	47
8D	1100	325	20-3/4	527	11	279	10	254	117.5
8DHD	1400	430	20-3/4	527	11	279	10	254	130
8DHDMF	1500	450	20-3/4	527	11	279	10	254	134
8DHDS	1400	430	20-3/4	527	11	279	10	254	130

- 100% calcium alloy plates provide higher cranking amp capacity and up to one year shelf life.
- Micro-porous narrow-ribbed deep pocket envelope separators eliminate shorts and improve reliability, extending battery life.
- Computer cast "Power Path" full-frame grids ensure fast, instant starts and longer service life.
- Computer-controlled curing process for high performance and consistent quality.
- De-mineralized electrolyte removes impurities for true maintenance-free performance and extended service life.
- Computer-control formation ensures optimal initial charge for long-term high performance and longer life.
- Dual sided plate pasting leaves no exposed plate surface to cause short circuits.
- Anchor-locked elements resist vibration damage.
- Forged terminals and bushings eliminate porosity and leakage of corrosive gasses.
- Heavy top straps eliminate loose or dropped plates.
- Flush manifold covers fit original specs with no hold-down problems.



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All HD PLUS Commercial Starting Batteries are constructed using Calcium "Maintenance-Free" Lead Alloy Plates*

Why Calcium?

- Higher cranking amp capacity
- Longer shelf life of one year plus
- Maintenance-free with no need to add water
- Reduced gassing prolongs battery life, allows flush cover design, improves safety and OE fit
- OEM design for best replacement compatibility

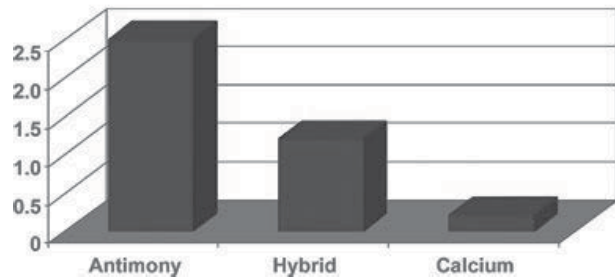
Benefits:

- More starting power
- Longer service life

The recharge process generates heat, which can lead to gassing. Gassing causes the water portion of the electrolyte to evaporate, reducing useful service life. Hybrid gasses, or loses water, at a rate that is 600% more than calcium maintenance free. Antimony gasses at a difference of 1200%. Conclusion: Less water loss = longer service life

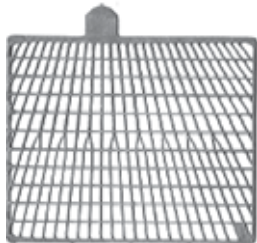
**An alloy is required to strengthen the plates during the manufacturing process. Calcium: both positive and negative plates contain calcium alloy. Hybrid: one plate is calcium, the other is antimony. Antimony: cheaper alternative to calcium.*

On Charge Gassing @ 125 °F – 14 Volts



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Computer cast "Power Path" full-frame grids ensure fast, instant starts and longer service life



The grids are the supporting framework for the active material (paste) on the plates. They conduct current to and from the plate paste. Our grid design was developed using computer-aided technology to ensure the most efficient power path.

- Thicker upper portion of plate construction reduces power choke
- Full frame grid eliminates growth problem and punctured separators
- Computer aided design ensures no dead corners in plate as capacity can be pulled around the frame directly to lug



Micro-porous narrow-ribbed deep pocket envelope separators eliminate shorts and improve reliability, extending battery life.



Separators are thin sheets of electrically insulating, porous material used as spacers between positive and negative plates to prevent short circuits within the cells. Narrow ribs maximize acid volume next to the positive plates, provide for better acid circulation and permit gases formed between the plates to rise to the surface of the electrolyte.

- Virtually indestructible
- Deep pocket protects from debris build up at bottom of case
- Narrow ribs reduce separator corrode-through by keeping envelope away from plate surface



DUAL PURPOSE BATTERIES FOR COMBINATION

STARTING AND DEEP CYCLE AUXILIARY POWER REQUIREMENTS

PART NO.	CCA	RC	MAXIMUM OVERALL DIMENSIONS (IN & MM)						APPROX. WEIGHT (LBS)	SUGGESTED WARRANTY	
			LENGTH		WIDTH		HEIGHT			FREE REPLACEMENT PERIOD (MONTHS)	WARRANTY PERIOD (MONTHS)
			IN	MM	IN	MM	IN	MM			
31DP-S	730	190	13	330	6-7/8	175	9-3/8	238	62-1/2	12	36
31DP-P	730	190	13	330	6-7/8	175	9-3/8	238	62-1/2	12	36

Regular starting batteries are designed to deliver quick bursts of high energy, or cold cranking amps. They are not designed for longer, slower deep discharges and constant, full recharges, typical of the amp loads that auxiliary equipment requires. The thinner plates used in starting batteries will shed their active material and corrode under constant deep cycling service.

However, our dual purpose commercial batteries are specially designed to stand up under constant deep discharges and full recharges, cycle after cycle. We have specially designed and manufactured every facet of our dual purpose batteries to endure this grueling service.

Heavier, thicker plates with specially formulated deep cycle oxide and special dual insulation fibreglass separators to better withstand the rigorous demands of cycling applications.

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SYSTEM APPLICATIONS

31DP-S

HVAC, APV, sleeper cabs, refrigeration (reefer) units, P&D over 20 stops per day and other long haul units with heavy accessory loads.

NOTE: Over 5 amp key off load recommend LVD





A SYSTEMS APPROACH ENGINEERED TO MEET THE RIGOROUS DEMANDS OF COMMERCIAL STARTING AND AUXILIARY POWER

- The following will outline some guidelines to determine when a battery management system is required for truck applications. When to use dual purpose batteries is a common question in Class 8 tractor applications with fully loaded sleeper cabs.
- Some newer commercial vehicles require more than reliable starting power. Some of today's vehicles are being designed with a heavy complement of driver comfort options, and an even heavier complement of sophisticated communication options... options like satellite uplinks, vehicle tracking and scheduling systems, EDI cellular phone and fax hook ups, on board computers, and much more.
- Starting batteries simply cannot deliver all of the starting power required... and hold up under the continuous Deep Cycle power drains required by all the new auxiliary equipment. To provide the necessary starting and auxiliary power, a "Battery Management System" approach is required. The benefit of a management system approach is longer and more reliable battery life for your customers.
- The at rest discharge value or what is referred to as a "key off load" is predetermined at 5 amps or 40 amp-hours as the threshold to determine if starting or starting/deep cycle batteries are required.
- If this key off load is less than 5 amps we recommend that you use one of our starting batteries. The starting battery or batteries required needs to be determined by the cranking capacity needed for the particular engine and the number of batteries being installed.
- If the key off load exceeds 5 amps a battery management system approach is required. We recommend that you use four of our dual purpose starting/deep cycle batteries for this type of application. (this is called a 4+0 system). This will allow the accessories (for example: a television, refrigerator, heater, interior lights etc.) to operate without jeopardizing the engine's starting system and will maximize the life of the truck's batteries. This battery management system should also be equipped with a low voltage disconnect in the truck's electrical system which will shut down the sleeper accessory circuits at a pre-set voltage.
- Here are some typical accessory item current loads and a realistic example of how this management system will work.

SYSTEM APPLICATIONS

31S, 31P, 31SPPlus, 31PPPlus, 31SHD, 31PHD

- Line haul, day cab, vocational, P&D under 20 stops per day and many other applications with 5 amp key off load or below

31DP-S, 31DP-P

- HVAC, APV, sleeper cabs, refrigeration (reefer) units, P&D over 20 stops per day and other long haul units with heavy accessory loads

NOTE: Over 5 amp key off load recommend LVD

ACCESSORY ITEM CURRENT LOADS

Electric blanket	3.0 amps
Refrigerator	3.5 amps
Cooler	7.0 amps
Television	1.0 amp
Satellite	2.0 amps (starting side only)
Radio	1.0 amp
Dome light - low	0.5 amps
Dome light - high (or reading light)	1.3 amps

AN EXAMPLE OF AMP REQUIREMENTS

Refrigerator	3.5 amps for 12 hrs (3.5 x 12)	42 Ah
Television	1.0 amps for 3 hrs (1 x 3)	3 Ah
Electric blanket	3.0 amps for 8 hrs (3 x 8)	24 Ah
Radio	1.0 amp for 2 hrs (1 x 2)	2 Ah
		<hr/>
		71 Ah

HOW MUCH RUN TIME WILL I GET WITH A 4+0 SYSTEM USING THE 31DP-S?

- 100 Ah batteries
- 4 batteries
- DOD recommended to 12.3 V or 75%
- Ah per battery: 25
- 4 x 25 Ah = 100 Ah available

Therefore, there is ample Ah capacity available to meet this 71 Ah requirement



LIGHT TRUCK/VAN STARTING BATTERIES

FAST RELIABLE STARTS AND LONGER SERVICE LIFE!

PART NO.	CCA	RC	MAXIMUM OVERALL DIMENSIONS (IN & MM)						APPROX. WEIGHT (LBS)
			LENGTH		WIDTH		HEIGHT		
			IN	MM	IN	MM	IN	MM	
DT24/74	930	120	10-7/8	276	7	178	9	229	45
DT34/78	875	120	10-3/4	273	67/8	175	8	203	41
DT75/86	700	95	9-3/4	248	7	178	8-1/8	206	34.5
58MF	580	85	10	254	7-1/4	184	7	178	31.5
65MF	880	150	12	305	7-3/8	187	7-5/8	194	45.5
75MF	700	95	9-3/4	248	7	178	7-1/4	184	34.5
24MF	650	120	10-3/4	273	6-3/4	171	9	229	40

- 100% calcium alloy plates provide higher cranking amp capacity and up to one year shelf life.
- Micro-porous narrow-ribbed deep pocket envelope separators eliminate shorts and improve reliability, extending battery life.
- Computer cast "Power Path" full-frame grids ensure fast, instant starts and longer service life.
- Computer-controlled curing process for high performance and consistent quality.
- De-mineralized electrolyte removes impurities for true maintenance-free performance and extended service life.
- Computer-control formation ensures optimal initial charge for long-term high performance and longer life.
- Dual sided plate pasting leaves no exposed plate surface to cause short circuits.
- Forged terminals and bushings eliminate porosity and leakage of corrosive gasses.
- Flush manifold covers fit original specs with no hold-down problems.



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ALL HD PLUS Light Truck/Van Starting Batteries are constructed using Calcium "Maintenance-Free" Lead Alloy Plates*

Why Calcium?

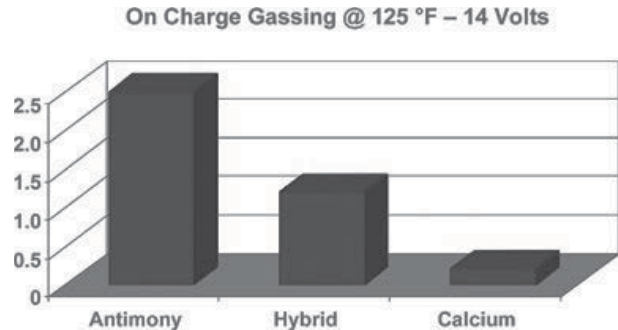
- Higher cranking amp capacity
- Longer shelf life of one year plus
- Maintenance-free with no need to add water
- Reduced gassing prolongs battery life, allows flush cover design, improves safety and OE fit
- OEM design for best replacement compatibility

Benefits:

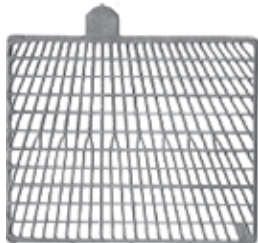
- More starting power
- Longer service life

The recharge process generates heat, which can lead to gassing. Gassing causes the water portion of the electrolyte to evaporate, reducing useful service life. Hybrid gasses, or loses water, at a rate that is 600% more than calcium maintenance free. Antimony gasses at a difference of 1200%. Conclusion: Less water loss = longer service life

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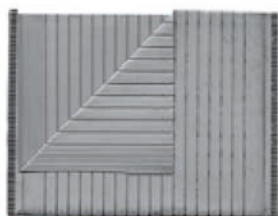
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Separators are thin sheets of electrically insulating, porous material used as spacers between positive and negative plates to prevent short circuits within the cells. Narrow ribs maximize acid volume next to the positive plates, provide for better acid circulation and permit gases formed between the plates to rise to the surface of the electrolyte.

- Virtually indestructible
- Deep pocket protects from debris build up at bottom of case
- Narrow ribs reduce separator corrode-through by keeping envelope away from plate surface

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BATTERIES & ACCESSORIES

BATTERIES ET ACCESSOIRES



PRODUCT LINE SHEET

HD PLUS BATTERY SPECIFICATIONS

GROUP NO.	PART NO.	PERFORMANCE LEVEL			MAXIMUM OVERALL DIMENSIONS (IN AND MM)						APPROX. WEIGHT (LBS.)		VOLT.
		CCA AT 0°F	R/C	CA AT 32°F	L	W	H	WET	DRY				
GROUP 31 HEAVY DUTY													
31	31SHD	1125	195	1260	13	330	6-3/4	171	9-1/2	241	61	-	12
	31PHD	1125	195	1260	13	330	6-3/4	171	9-1/2	241	61	-	12
	31SPLUS	1000	185	1190	13	330	6-3/4	171	9-1/2	241	58	-	12
	31PPLUS	1000	185	1190	13	330	6-3/4	171	9-1/2	241	58	-	12
	31S	950	175	1140	13	330	6-3/4	171	9-1/2	241	56.5	-	12
	31P	950	175	1140	13	330	6-3/4	171	9-1/2	241	56.5	-	12
	31SVL	700	120	875	13	330	6-3/4	171	9-1/2	241	49.5	-	12
GROUP 31 DUAL PURPOSE & DEEP CYCLE													
31	31DC	650	225	810	13	330	6-3/4	171	9-1/2	241	59	-	12
	31DP-S	730	190	940	13	330	6-3/4	171	9-1/2	241	62.5	-	12
	31DP-P	730	190	940	13	330	6-3/4	171	9-1/2	241	62.5	-	12
COMMERCIAL													
4	4HDMF	975	250	1220	12-3/4	318	6-7/8	175	9-1/2	241	47	-	6
4D	4DHD	1050	290	1280	20-3/4	527	8-1/2	216	10-1/8	258	99.5	-	12
8D	8DHDMF	1500	450	1825	20-3/4	527	11	279	10	254	134	-	12
	8DHD	1400	430	1700	20-3/4	527	11	279	10	254	130	-	12
	8D	1100	325	1340	20-3/4	527	11	279	10	254	117.5	-	12
30H	30HHD	925	170	1110	13	330	6-3/4	171	9-1/2	241	57.5	-	12
4DLT	4DLT	850	240	1065	20	508	8-1/8	206	8-1/8	206	80	-	12
27	27DC	575	200	715	12-1/2	318	6-3/4	171	9-3/8	238	53	-	12
AUTOMOTIVE/SUV/LIGHT TRUCK & VAN													
24/24F/74	DT24/74	930	120	1025	10-7/8	276	7	178	9	229	45	-	12
34/78	DT34/78	875	120	1020	10-3/4	273	6-7/8	175	8	203	41	-	12
26/70	DT75/86	700	95	860	9-3/4	248	7	178	8-1/8	206	34.5	-	12
58	58MF	580	85	725	10	254	7-1/4	184	7	178	31.5	-	12
65	65MF	880	150	1040	12	305	7-3/8	187	7-5/8	194	45.5	-	12
75	75MF	700	95	860	9-3/4	248	7	178	7-1/4	184	34.5	-	12
24	24MF	650	120	820	10-3/4	273	6-3/4	171	9	229	40	-	12

To order batteries or for more information, contact your TW Representative.

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BATTERY SPECIFICATIONS

GROUP NO.	TW PART NO	PART NO.	PERFORMANCE LEVEL			WEIGHT (lb)	MAXIMUM OVERALL DIMENSIONS						Core Value	FOOTNOTES	
			CCA	R.C.	REF. CA		20 HR CAP	LENGTH		WIDTH		HEIGHT			
								in	mm	in	mm	in			mm
12-VOLT INTIMIDATOR® — AGM — VALVE REGULATED															
75/86	9A75DT	9A75DT	680	100	810	50	9-9/16	242	7-1/16	179	7-15/16	202	\$10.0	2,13,16,17,18,22,37,38,39,46	
34/78	9A78DT	9A78DT	775	120	955	55	10-3/4	273	6-7/8	175	8	203	\$10.0	2,13,16,17,38,39,46	
34	9A34	9A34	775	120	955	55	10-3/4	273	6-7/8	175	8	203	\$10.0	2,13,17,38,39,46,78	
34R	9A34R	9A34R	775	120	955	55	10-3/4	273	6-7/8	175	8	203	\$10.0	2,13,17,38,39,46,78	
35/85	9A35/85	9A35/85	680	100	810	50	9-9/16	242	6-3/4	171	7-3/4	197	\$10.0	2,13,17,18,37,38,39,46	
65	9A65	9A65	775	150	955	75	12	305	7-3/8	187	7-5/8	194	\$10.0	2,13,17,38,39,46	
78	9A78	9A78	775	120	955	55	10-3/4	273	6-7/8	175	7-1/4	184	\$10.0	2,13,17,38,39,46	
31	9A31	9A31	925	190	1060	100	13	330	6-3/4	171	9-1/2	241	\$15.0	2,13,17,38,39,43,X	
31P	9A31P	9A31P	925	190	1060	100	13	330	6-3/4	171	9-1/2	241	\$15.0	2,13,17,38,39,43	
34M	9A34M	9A34M	775	120	955	55	10-3/4	273	6-7/8	175	8-3/8	212	\$10.0	2,13,17,38,39,43,U	
Plus	9A51P	9A51P	325	60	390	46	9-1/4	235	5	127	8-5/8	220	\$10.0	13,22,38,39,46,J	
12-VOLT — AGM — AUTOMOTIVE AUXILIARY															
AUX	AUX14	AUX14	200	—	—	12	5-7/8	150	3-7/16	88	5-3/4	145	—	13	
12-VOLT ULTIMATE® — AGM — ADVANCED GENERATION / A3™ TECHNOLOGY															
47 (H5/L2)	9AGM47	9AGM47	600	100	690	60	9-9/16	242	6-7/8	175	7-1/2	190	\$10.0	13,17,22,38,39,46	
48 (H6/L3)	9AGM48	9AGM48	760	120	875	70	11	278	6-7/8	175	7-1/2	190	\$10.0	13,17,22,38,39,46	
49 (H8/L5)	9AGM49	9AGM49	850	170	975	92	13-15/16	354	6-7/8	175	7-1/2	190	\$10.0	13,17,22,38,39,46	
94R (H7/L4)	9AGM94R	9AGM94R	800	140	920	80	12-7/16	315	6-7/8	175	7-1/2	190	\$10.0	13,17,22,38,39,46	
95R (H9/L6)	9AGM95R	9AGM95R	950	190	1090	105	15-1/2	394	6-7/8	175	7-1/2	190	\$10.0	13,17,22,38,39,46	
12-VOLT ULTIMATE® ADVANCED GENERATION / A3™ TECHNOLOGY															
75/86	DT75/86	775DT	690	90	820	36	9-3/4	248	7	178	8-1/8	206	\$10.0	14,16,17,18,22,37,45	
34/78	DT34/78	778DT	850	115	1020	41	10-3/4	273	6-7/8	175	8	203	\$10.0	14,16,17,18,22,37,45	
24	724MF	724MF	725	120	890	42.5	10-3/4	273	6-3/4	171	9	229	\$10.0	17,22,45	
24F	724FMF	724FMF	725	120	890	42.5	10-3/4	273	6-3/4	171	9	229	\$10.0	17,22,45	
25	725MF	725MF	625	95	775	35.5	9-3/4	248	6-7/8	175	8-7/8	225	\$10.0	17,22,45	
27	727MF	727MF	840	140	1010	51	12-5/8	321	6-3/4	171	9	229	\$10.0	17,21,45	
27F	727FMF	727FMF	840	140	1010	51	12-5/8	321	6-3/4	171	9	229	\$10.0	17,21,45	
34	734MF	734MF	850	115	1020	40	10-3/4	273	6-7/8	175	8	203	\$10.0	17,18,22,37,45	
34R	734RMF	734RMF	850	115	1020	40	10-3/4	273	6-7/8	175	8	203	\$10.0	17,18,22,37,45	
35	735MF	735MF	625	95	775	35.5	9-3/4	248	6-7/8	175	8-7/8	225	\$10.0	17,22,45	
48 (H6/L3)	748MF	748MF	730	120	895	43	11	278	6-7/8	175	7-1/2	190	\$10.0	17,22,26,45	
65	765MF	765MF	750	140	885	44	12	305	7-3/8	187	7-5/8	194	\$10.0	17,22,45	
75	75MF	775MF	690	90	820	35.5	9-3/4	248	7	178	7-1/4	184	\$10.0	17,22,45	
78	78MF	778MF	850	115	1020	39	10-3/4	273	6-7/8	175	7-1/4	184	\$10.0	17,22,45	
79	779MF	779MF	840	140	1000	43	12-1/16	307	7-1/16	179	7-3/8	188	\$10.0	22,45	
86	786MF	786MF	690	90	775	35	9	229	6-7/8	175	8-1/8	206	\$10.0	22,45	

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UNDER THE HOOD / SOUS LE CAPOT





BATTERY SPECIFICATIONS (continued)

GROUP NO.	TW PART NO	PART NO.	PERFORMANCE LEVEL			WEIGHT (lb)	MAXIMUM OVERALL DIMENSIONS						Core Value	FOOTNOTES
			CCA	R.C.	REF. CA		WET	LENGTH	WIDTH	HEIGHT	Core Value			
12-VOLT GOLD/ A3™ TECHNOLOGY														
							in	mm	in	mm	in	mm		
75/86	675DT	675DT	650	85	800	34	9-3/4	248	7	178	8-1/8	206	\$10.0	14,16,17,18,22,37,45
34/78	678DT	678DT	690	110	820	37	10-3/4	273	6-7/8	175	8	203	\$10.0	14,16,17,18,22,37,45
24	24MF	624MF	675	115	850	40	10-3/4	273	6-3/4	171	9	229	\$10.0	17,22,45
24F	24FMF	624FMF	675	115	850	40	10-3/4	273	6-3/4	171	9	229	\$10.0	17,22,45
27	627MF	627MF	710	120	860	46.5	12	305	6-3/4	171	9	229	\$10.0	21,45
27F	627FMF	627FMF	710	120	860	46.5	12-3/8	314	6-3/4	171	9	229	\$10.0	21,45
34	34MF	634MF	690	110	820	36.5	10-3/4	273	6-7/8	175	8	203	\$10.0	17,18,22,37,45
34R	634RMF	634RMF	690	110	820	36.5	10-3/4	273	6-7/8	175	8	203	\$10.0	17,18,22,37,45
36R	636RMF	636RMF	650	120	800	41.5	10-1/4	260	7-1/4	184	8	203	\$10.0	45
40R (T6/LB3)	640RMF	640RMF	650	105	810	37	11	278	6-7/8	175	6-7/8	175	\$10.0	17,22,26,45
41	641MF	641MF	650	100	800	36	11-9/16	293	6-7/8	175	6-7/8	175	\$10.0	22,45
42/58R	642/58R	642/58R	590	85	725	32	10	254	7-1/4	184	6-7/8	175	\$10.0	17,22,45
42	642MF	642MF	475	70	590	30	9-9/16	242	6-7/8	175	6-7/8	175	\$10.0	45
47 (H5/L2)	647MF	647MF	600	95	750	38	9-9/16	242	6-7/8	175	7-1/2	190	\$10.0	17,22,26,45
48 (H6/L3)	648MF	648MF	680	120	850	42	11	278	6-7/8	175	7-1/2	190	\$10.0	17,22,26,45
49 (H8/L5)	649MF	649MF	900	185	1080	55	13-15/16	354	6-7/8	175	7-1/2	190	\$10.0	17,22,26,45
50	650MF	650MF	600	108	750	43	13-3/8	340	5-3/8	136	8-7/8	225	\$10.0	17,45
51R	651RMF	651RMF	500	75	600	29.5	9-3/8	238	5	127	8-3/4	222	\$10.0	22,45
55	55MF	655MF	570	90	705	32	8-3/4	222	6	152	8-1/2	216	\$10.0	17,18,45
58	658MF	658MF	580	85	725	32	10	254	7-1/4	184	7	178	\$10.0	17,22,45
58R	658RMF	658RMF	580	85	725	32	10	254	7-1/4	184	6-7/8	175	\$10.0	17,22,45
59	659MF	659MF	590	100	700	37	9-1/2	241	7-7/16	189	7-1/2	190	\$10.0	17,45
64	664MF	664MF	620	100	770	41.5	11-3/4	298	6-1/4	159	8-7/8	225	\$10.0	45
65	665MF	665MF	875	150	1035	46.5	12	305	7-3/8	187	7-5/8	194	\$10.0	17,22,45
75	675MF	675MF	650	85	800	33.5	9-3/4	248	7	178	7-1/4	184	\$10.0	17,22,45
78	678MF	678MF	690	110	820	36.5	10-3/4	273	6-7/8	175	7-1/4	184	\$10.0	17,22,45
85	685MF	685MF	650	110	775	36	9	229	6-7/8	175	8-1/8	206	\$10.0	22,45
90 (T5/LB2)	690MF	690MF	600	90	745	32.5	9-9/16	242	6-7/8	175	6-7/8	175	\$10.0	17,22,26,45
91 (T6/LB3)	691MF	691MF	700	100	875	38.5	11	278	6-7/8	175	6-7/8	175	\$10.0	17,22,26,45
92 (T7/LB4)	692MF	692MF	650	130	780	37	12-1/2	317	6-7/8	175	6-7/8	175	\$10.0	17,22,26,45
93 (T8/LB5)	693MF	693MF	800	130	960	46.5	13-15/16	354	6-7/8	175	6-7/8	175	\$10.0	17,22,26,45
94R (H7/L4)	694RMF	694RMF	765	135	910	48	12-7/16	315	6-7/8	175	7-1/2	190	\$10.0	17,22,26,45
98R (H9/L6)	698RMF	698RMF	850	190	1020	62.5	15-1/2	394	6-7/8	175	7-1/2	190	\$15.0	17,22,26,45
96R	696RMF	696RMF	600	90	745	32.5	9-9/16	242	6-7/8	175	6-7/8	175	\$10.0	17,22,26,45
97R (H5/L2)	697RMF	697RMF	600	95	750	38	9-9/16	242	6-7/8	175	7-1/2	190	\$10.0	17,22,26,45
101	6101MF	6101MF	650	110	810	36	10-1/4	260	7-1/16	179	6-11/16	170	\$10.0	22,45
121R	6121RMF	6121RMF	540	80	665	30.5	8-1/4	210	6-15/16	177	8-1/8	206	\$10.0	45
124R	6124RMF	6124RMF	670	100	810	39	10-1/4	260	6-7/8	175	8-3/8	212	\$10.0	22,45
12-VOLT VINTAGE VEHICLES & LIGHT COMMERCIAL														
3EE	403E	403E	400	95	485	42	19-1/4	489	4-1/4	108	9	229	\$10.0	11,25,45
22NF	See page 2, Lawn Mower - Garden Tractor - Small Engine section.													
29NF	429NF	429NF	390	60	465	40.5	12-7/8	327	5-1/2	140	9	229	\$10.0	11,15,25,45
53		353	300	60	375	32.5	13	330	4-3/4	121	8-3/8	213	\$10.0	11,15,25,45

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BATTERY SPECIFICATIONS (continued)

GROUP NO.	TW PART NO	PART NO.	PERFORMANCE LEVEL		WEIGHT (lb)	MAXIMUM OVERALL DIMENSIONS						Core Value	FOOTNOTES	
			CCA	R.C.		REF. CA	WET	LENGTH	WIDTH	HEIGHT	HEIGHT			
						in	mm	in	mm	in	mm			
12-VOLT GOLD / A3™ TECHNOLOGY														
75/86	575DT	575DT	540	85	670	9-3/4	248	7	178	8-1/8	206	\$10.0	14,16,17,18,22,37,45	
34/78	578DT	578DT	550	90	680	10-3/4	273	6-7/8	175	8	203	\$10.0	14,16,17,18,22,37,45	
24	524MF	524MF	550	90	650	37						\$10.0	17,22,45	
	424MF	424MF	460	70	575	35						\$10.0	17,22,45	
24F	524FMF	524FMF	550	90	650	37						\$10.0	17,22,45	
	424FMF	424FMF	460	70	575	35						\$10.0	17,22,45	
25	525MF	525MF	550	90	675	33.5	9-3/4	248	6-7/8	175	225	\$10.0	17,22,45	
	426MF	426MF	450	55	580	27	8-3/4	222	6-3/4	171	203	\$10.0	17,18,22,37,45	
26	526MF	526MF	540	80	665	30	8-3/4	222	6-3/4	171	8	\$10.0	17,18,22,37,45	
	426MF	426MF	450	55	580	27	8-3/4	222	6-3/4	171	8	\$10.0	17,18,22,37,45	
26R	526RMF	526RMF	540	80	665	30	8-3/4	222	6-3/4	171	8	\$10.0	17,18,22,37,45	
	426RMF	426RMF	450	55	580	27	8-3/4	222	6-3/4	171	8	\$10.0	17,18,22,37,45	
34	534MF	534MF	550	90	690	34	10-3/4	273	6-7/8	175	8	\$10.0	17,18,22,37,45	
	35MF	35MF	550	90	675	33.5	9-3/4	248	6-7/8	175	8-7/8	225	\$10.0	17,22,45
42/58R	542/58R	542/58R	500	75	630	30	10	254	7-1/4	184	175	\$10.0	17,22,45	
	545MF	545MF	485	65	600	30.5	9-3/8	238	5-1/2	140	9	229	\$10.0	45
51	551MF	551MF	450	70	560	28.5	9-3/8	238	5	127	8-3/4	222	\$10.0	22,45
	551RMF	551RMF	450	70	560	28.5	9-3/8	238	5	127	8-3/4	222	\$10.0	22,45
58	558MF	558MF	500	75	630	30	10	254	7-1/4	184	7	178	\$10.0	17,22,45
	568MF	568MF	675	130	890	41.5	12	305	7-3/8	187	7-5/8	194	\$10.0	17,22,45
70	570MF	570MF	540	80	665	30	8-3/4	248	7	178	7-1/8	181	\$10.0	17,22,37,45
	575MF	575MF	540	85	670	33	9-3/4	242	7	178	7-1/4	184	\$10.0	17,22,45
78	578MF	578MF	550	90	690	34	10-3/4	273	6-7/8	175	7-1/4	184	\$10.0	17,22,45
	586MF	586MF	540	85	675	33	9	229	6-7/8	175	8-1/8	206	\$10.0	22,45
151R	5151R/MF	5151R/MF	335	55	445	19	7-1/4	184	4-15/16	125	8-3/4	222	\$10.0	17,22,45
	8AMU1R	8AMU1R	320	45	400	24	7-3/4	197	5-1/8	130	7-1/4	184	\$5.0	2,13,22,38,39,45
12-VOLT VALUE LINE MAINTENANCE-FREE														
75/86	VL75DT	VL75DT	475	60	590	30	9-3/4	248	7	178	8-1/8	206	\$10.0	14,16,17,22,45
34/78	VL78DT	VL78DT	525	80	650	34.5	10-3/4	273	6-7/8	175	8	203	\$10.0	14,16,17,22,45
	VL24	VL24	440	70	550	35	10-3/4	273	6-3/4	171	9	229	\$10.0	17,22,45
24F	VL24F	VL24F	440	70	550	34	10-3/4	273	6-3/4	171	9	229	\$10.0	17,22,45
	VL26	VL26	440	55	550	27	8-3/4	222	6-3/4	171	8	203	\$10.0	17,22,45
26R	VL26R	VL26R	440	55	550	27	8-3/4	222	6-3/4	171	8	203	\$10.0	17,22,45
	VL58	VL58	440	70	550	30	10	254	7-1/4	184	7	178	\$10.0	17,22,45
65	VL65	VL65	650	120	865	41.5	12	305	7-3/8	187	7-5/8	194	\$10.0	17,22,45
	31SVL	VL31	650	130	800	52	13	330	6-3/4	171	9-1/2	241	\$15.0	19,22,45,X
31P	VL31P	VL31P	650	130	800	52	13	330	6-3/4	171	9-1/2	241	\$15.0	19,22,45
	6-VOLT VINTAGE VEHICLES & LIGHT COMMERCIAL													
2E	402E	402E	620	190	750	42	19-1/4	489	4	102	8-7/8	225	\$10.0	11,15,25,45
	319L	319L	440	120	560	26	8-1/4	210	6-3/4	171	7-1/2	191	\$10.0	11,15,25,45
8-VOLT COMMERCIAL SERVICE														
1	801	801	520	102	650	31.5	8-7/8	225	6-3/4	171	8-7/8	225	\$10.0	12,25,45

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UNDER THE HOOD / SOUS LE CAPOT





BATTERY SPECIFICATIONS (continued)

GROUP NO.	TW PART NO	PART NO.	PERFORMANCE LEVEL		WEIGHT (lb)	MAXIMUM OVERALL DIMENSIONS						Core Value	FOOTNOTES	
			CCA	R.C.		REF. CA	LENGTH		WIDTH		HEIGHT			
							in	mm	in	mm	in			mm
6-VOLT HEAVY-DUTY COMMERCIAL SERVICE														
1	901MF	901MF	640	130	800	9	229	175	6-7/8	175	8-3/4	222	\$10.0	21,25
2	902	902	675	185	840	10-3/8	264	6-7/8	175	8-3/4	222	\$10.0	12,25	
3EH	93EH	93EH	875	250	1035	19-1/4	489	4-1/4	108	10	254	\$10.0	12,25	
4	4HDNF	904MF	975	250	1170	12-1/2	318	6-7/8	175	9-1/2	241	\$15.0	21,25	
5D	905D	905D	880	250	1100	13-3/8	340	7-1/8	181	9-1/4	235	\$15.0	12,25	
12-VOLT HEAVY-DUTY COMMERCIAL SERVICE														
3ET	93ET	93ET	500	120	625	19-1/4	489	4-1/4	108	9-7/8	251	\$10.0	12,25	
4D	4DHD	904D	1050	290	1280	20-3/4	527	8-1/2	216	10-1/8	258	\$30.0	12,17,21,22	
4DLT	94DLT	94DLT	850	240	1005	20	508	8-1/8	206	8-1/8	206	\$20.0	12,19,25	
908DFT	908DFT	908DFT	1425	440	1730	20-3/4	527	11	279	10	254	\$40.0	12,17,21,22	
8D	8DHD	908D	1400	430	1700	13	330	6-3/4	171	9-1/2	241	\$15.0	17,19,21,22,X	
8D	708D	708D	1100	325	1340	17	432	6-7/8	175	8	203	\$15.0	19,21,22,X	
17TF	917TF	917TF	530	140	630	10-1/4	260	6-3/4	171	9-1/2	241	\$10.0	21,22,X	
28	928MF	928MF	550	100	685	13	330	6-3/4	171	9-1/2	241	\$15.0	19,21,22	
30H	930H	930H	650	150	800	50.5	13	330	6-3/4	171	9-1/2	\$15.0	17,19,21,22,X	
31SHD	1231XMF	1231XMF	1060	190	1260	61						\$15.0	17,19,21,22,X	
31SPLUS	1231MF	1231MF	1000	185	1190	58.5						\$15.0	17,19,21,22,X	
31S	1131MF	1131MF	950	175	1140	56.5	13	330	6-3/4	171	9-1/2	\$15.0	17,19,21,22,X	
31S-760	1031MF	1031MF	760	170	910	55						\$15.0	19,21,22,X	
31SE	931MF	931MF	650	150	810	52						\$15.0	19,21,22,X	
31PHD	1231XPMF	1231XPMF	1060	190	1260	61						\$15.0	17,19,21,22	
31PPLUS	1231PMF	1231PMF	1000	185	1190	58.5						\$15.0	17,19,21,22	
31P	1131PMF	1131PMF	950	175	1140	56.5	13	330	6-3/4	171	9-1/2	\$15.0	17,19,21,22	
31P-760	1031PMF	1031PMF	760	170	910	55						\$15.0	19,21,22	
31PE	931PMF	931PMF	650	150	810	52						\$15.0	19,21,22	
12-VOLT HEAVY-DUTY COMMERCIAL SEVERE SERVICE/DUAL PURPOSE														
31	31DP-S	7731	730	190	940	62						\$15.0	19,21,22,43,X	
31P	31DP-P	7731P	730	190	940	62	13	330	6-3/4	171	9-1/2	\$15.0	19,21,22,43	
31		DP31CS	700	185	875	57						\$15.0	19,21,22,43,X	
12-VOLT HEAVY-DUTY COMMERCIAL — AGM — DEEP CYCLE / STARTING														
31	8A31S	8A31	800	200	1000	69	13	330	6-3/4	171	9-1/2	\$15.0	2,13,17,38,39,43,X	
12-VOLT LAWN MOWER — GARDEN TRACTOR — SMALL ENGINE CALCIUM MAINTENANCE-FREE														
	11U1L	11U1L	350	—	410	19						\$5.0	22,Z	
	10U1L	10U1L	300	—	365	17						\$5.0	22,Z	
U1	8U1L	8U1L	230	—	275	15.5	7-3/4	197	5-1/8	130	7-1/4	\$5.0	22,Z	
	7U1L	7U1L	195	—	235	15						\$5.0	22,Z	
	4U1L	4U1L	150	—	175	14						\$5.0	22,Z	
	11U1R	11U1R	350	—	410	19						\$5.0	22,Y	
	10U1R	10U1R	300	—	365	17						\$5.0	22,Y	
U1R	8U1R	8U1R	230	—	275	15.5	7-3/4	197	5-1/8	130	7-1/4	\$5.0	22,Y	
	7U1R	7U1R	195	—	235	15						\$5.0	22,Y	
U1L = left front positive; U1R = right front positive (with terminal side of battery to front)														
22F	522FMF	522FMF	425	65	540	31.5	9-3/8	238	6-3/4	171	8-1/4	\$10.0		
22NF	322NF	322NF	360	58	430	29	9-3/8	238	5-1/2	140	9	\$5.0	12	

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BATTERY SPECIFICATIONS (continued)

GROUP NO.	TW PART NO	PART NO.	PERFORMANCE LEVEL		WEIGHT (lb)	LENGTH	WIDTH	HEIGHT		Core Value	FOOTNOTES					
			CCA	R.C.				in	mm			in	mm			
24	24M7T	24M-7	800	130	44	10-3/4	6-3/4	9-3/8	238	\$10.00	17,22,U					
	24M6T	24M-6	675	115	40											
	24M5T	24M-5	550	90	37											
	24M4T	24M-4	460	70	35											
	27M6T	27M-6	840	182	57.5											
27	TW PART NO	PART NO.	CCA	MINS @ 23 A	20 HR CAP	LENGTH	WIDTH	HEIGHT	Core Value	FOOTNOTES						
	DP24	DP-24	550	685	140	120	65	10-3/4	273	6-3/4	171	9-3/8	238	\$10.00	12,17,44,U	
27	DP27	DP-27	650	810	175	150	80	50	12-1/2	318	6-3/4	171	9-3/8	238	\$10.00	12,17,44,U
31	DP31DT	DP-31DT	700	875	205	185	100	57	13	330	6-3/4	171	9-1/2	241	\$15.00	17,21,22,44,A
12-VOLT MARINE /RV DEEP CYCLE SERVICE																
24	DC24T	DC-24	500	625	150	130	75	45.5	10-3/4	273	6-3/4	171	9-3/8	238	\$10.00	11,17,35,44,U
27	27DC	DC-27	575	715	200	175	90	53.5	12-1/2	318	6-3/4	171	9-3/8	238	\$10.00	11,17,35,44,U
31	31DC	DC-31DT	650	810	225	185	105	59.5	13	330	6-3/4	171	9-1/2	241	\$15.00	11,17,21,22,35,44,A
<i>Note: The three "DC" deep cycle part numbers above include double insulated glass mat separators.</i>																
GROUP NO.	TW PART NO	PART NO.	CCA	REF. MCA	8 HR CAP	6 HR CAP	20 HR CAP	WEIGHT (lb)	LENGTH	WIDTH	HEIGHT		Core Value	FOOTNOTES		
											in	mm			in	mm
8-VOLT MARINE AND INDUSTRIAL																
981	8V195	8V195	980	1170	170	166	90	20-3/4	527	7-1/4	184	10-5/8	270	\$20.00	11,15,17,25	
983	819	819	510	610	167	158	119	24-1/2	622	7-1/2	191	10-1/2	267	\$30.00	11,17,20,25,35,T	
984	821	821	530	635	187	177	135	27-1/2	669	7-1/2	191	10-1/2	267	\$30.00	11,17,20,25,35,T	
985	825	825	730	870	224	212	160	26-7/8	683	8-1/2	216	11-3/4	298	\$40.00	11,17,20,25,35,F	
GROUP NO.	TW PART NO	PART NO.	CCA	RES. CAP.	20 HR CAP	WEIGHT (lb)	LENGTH	WIDTH	HEIGHT	Core Value	FOOTNOTES					
												ORDNANCE				
2HN	See page 7, Dry Charged Ordinance															
4HN																
6TL	6TMF	6TMF	750	230	120	73	11-1/4	286	10-1/2	267	9	229	\$20.00	6,17,21,25		
GROUP NO.	TW PART NO	PART NO.	20 HR CAP	MINS @ 75 A	WEIGHT (lb)	LENGTH	WIDTH	HEIGHT	Core Value	FOOTNOTES						
											6-VOLT FLOOR SCRUBBER AND SWEEPER					
901	9C11	9C11	250	210	130	73	11-3/4	298	7	178	11-1/2	292	\$15.00	4,11,17,19,25,34,V		
902	8C8V	8C8V	330	270	170	97.5	11-3/4	298	7	178	14-3/8	365	\$20.00	4,11,17,19,25,34,V		
903	8L16	8L16	370	295	190	113	11-3/4	298	7	178	16-1/2	419	\$25.00	4,11,17,19,25,34,W		
12-VOLT FLOOR SCRUBBER AND SWEEPER																
921	9C12	9C12	228	180	115	127	15-1/2	394	7	178	14-1/4	362	\$30.00	11,17,25,34,V		
921	8C12	8C12	195	160	90	116							\$30.00	11,17,25,34,V		
GROUP NO.	TW PART NO	PART NO.	CCA	RES. CAP.	REF. CA	WEIGHT (lb)	LENGTH	WIDTH	HEIGHT	Core Value	FOOTNOTES					
												12-VOLT GOLF CAR STARTING				
24/26	GC12VT	426G	460	55	560	27	8-3/4	171	8	203	\$5.00	17,22,G				

For gas engine golf cars with T881 terminal.

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BATTERY SPECIFICATIONS (continued)

GROUP NO.	TW PART NO	PART NO.	20 HR CAP	5 HR CAP	MINS. DISCHARGED @		WEIGHT	LENGTH	WIDTH		HEIGHT		Core Value	FOOTNOTES
					75 A	25 A			in	mm	in	mm		
GOLF CAR — EV — MOTIVE POWER — DEEP CYCLE SERVICE														
	GC25	GC25	235	188	—	488	68	10-1/4	260	7-1/8	181	10-7/8	276	\$15.00 4,11.36,U
GC2	GC15T	GC15	230	174	—	448	64	—	—	—	—	—	\$15.00 4,11.36,U	
	GC10T	GC10	215	157	—	395	60.5	—	—	—	—	—	\$15.00 11.36,U	
GC2H	GC45	GC45	255	203	—	530	77	10-1/4	260	7-1/8	181	11-7/8	\$15.00 4,11.36,U	
	GC8VT	GC8V	165	130	85	318	68	10-1/4	260	7-1/8	181	11-1/8	\$15.00 4,11.36,U	
GC8	GC12VT	GC12V	155	—	77	110	292	13-1/8	333	7-1/16	179	11-3/8	\$15.00 11,O	
GROUP NO.	TW PART NO	PART NO.	CCA	REF. MCA	RES. CAP.	MINS @ 25 A	20 HR CAP	WEIGHT	LENGTH	WIDTH	HEIGHT	Core Value	FOOTNOTES	
AGM VALVE REGULATED														
U1	8AU1	8AU1	200	240	45	54	32	7-3/4	197	5-1/8	130	7-1/4	184	\$5.00 2,38.39,44,Y
	8AU1H	8AU1H	200	240	45	54	32	8-5/16	211	5-1/8	130	7-1/4	184	\$5.00 2,17.38,39,44,Y
22NF	8A22NF	8A22NF	350	420	85	95	55	9-3/8	238	5-1/2	140	9-1/4	235	\$5.00 2,38.39,44,G
24M	8A24M	8A24M	525	800	135	145	79	10-7/8	276	6-3/4	171	9-7/8	251	\$10.00 2,17.38,39,44,U
24	8A24	8A24	525	800	135	145	79	10-7/8	276	6-3/4	171	9-7/8	251	\$10.00 2,17.38,39,44,G
	8A24NH	8A24NH	525	800	135	145	79	10-1/4	260	6-3/4	171	9-7/8	251	\$10.00 2,38.39,44,G
27M	8A27M	8A27M	580	900	175	185	92	12-3/4	324	6-3/4	171	9-7/8	251	\$10.00 2,17.38,39,44,U
27	8A27	8A27	580	900	175	185	92	12-3/4	324	6-3/4	171	9-7/8	251	\$10.00 2,17.38,39,44,G
31M	8A31DT	8A31DT	800	1000	200	210	105	12-15/16	329	6-3/4	171	9-3/8	238	\$15.00 2,16.17,38,39,44,A
4D	8A4D	8A4D	1110	1420	380	413	198	20-3/4	527	8-1/2	216	10	254	\$30.00 2,17.44
8D	8A8D	8A8D	1450	1800	480	517	245	20-3/4	527	11	279	10	254	\$40.00 2,17.44
GC2	8AGC2	8AGC2	680	900	380	409	190	10-1/4	260	7-1/8	181	10-7/8	276	\$15.00 2,44,U
GEL VALVE REGULATED														
U1	8GU1	8GU1	200	290	44	47	31.6	7-3/4	197	5-1/8	130	7-1/4	184	\$5.00 4,38.39,44,Y
	8GU1H	8GU1H	200	290	44	47	31.6	8-5/16	211	5-1/8	130	7-1/4	184	\$5.00 4,17.38,39,44,Y
22NF	8G22NF	8G22NF	210	300	77	82	51	9-3/8	238	5-1/2	140	9-1/4	235	\$5.00 4,38.39,44,G
24M	8G24M	8G24M	410	575	132	140	73.6	10-7/8	276	6-3/4	171	9-7/8	251	\$10.00 4,17.38,39,44,U
24	8G24	8G24	335	470	132	140	73.6	10-7/8	276	6-3/4	171	9-7/8	251	\$10.00 4,17.38,39,44,G
	8G24NH	8G24NH	335	470	132	140	73.6	10-1/4	260	6-3/4	171	9-7/8	251	\$10.00 4,38.39,44,G
	8G24SS	8G24SS	335	470	132	140	73.6	10-1/4	260	6-3/4	171	8-1/4	210	\$10.00 4,38.39,44,C
27M	8G27M	8G27M	505	700	160	170	88	12-3/4	324	6-3/4	171	9-7/8	251	\$10.00 4,17.38,39,44,U
27	8G27	8G27	400	550	160	170	88	12-3/4	324	6-3/4	171	9-7/8	251	\$10.00 4,17.38,39,44,G
	8G27/1876	8G27/1876	400	550	160	170	88	12-3/4	324	6-3/4	171	9-1/4	235	\$10.00 4,17.38,39,44,B
30H	8G30H	8G30H	450	640	180	190	97.6	12-15/16	329	6-3/4	171	9-3/4	248	\$15.00 4,17.38,39,44,B
31M	8G31DT	8G31DT	550	780	180	190	97.6	12-15/16	329	6-3/4	171	9-3/8	238	\$15.00 4,16.17,38,39,44,A
31	8G31	8G31	450	640	180	190	97.6	12-15/16	329	6-3/4	171	9-3/8	238	\$15.00 4,17.38,39,44,X
34R	8G34R	8G34R	300	420	90	96	60	10-3/16	259	6-5/8	168	7	178	\$10.00 4,38.39,44,C
	8G40C	8G40C	225	325	59	63	40	7-3/4	197	6-5/8	168	6-7/8	175	\$5.00 4,38.39,44,C
4D	8G4D	8G4D	970	1245	375	395	183	20-3/4	527	8-1/2	216	10	254	\$30.00 4,17.44
8D	8G8D	8G8D	1150	1470	475	500	225	20-3/4	527	11	279	10	254	\$40.00 4,17.44
GC2	8GGC2	8GGC2	585	850	345	375	180	10-1/4	260	7-1/8	181	10-7/8	276	\$15.00 4,38.39,44,U
GC8	8G8VGC	8G8VGC	400	575	250	270	140	10-1/4	260	7-1/8	181	10-7/8	276	\$15.00 4,44,U
	8G55HP	8G55HP	—	—	—	218	115	13-5/8	345	6-3/4	172	11-7/16	290	\$15.00 4,17.44
55HP	8G55HP8	8G55HP8	—	—	—	218	115	13-5/8	345	6-3/4	172	11-7/16	290	\$15.00 4,17.44,B

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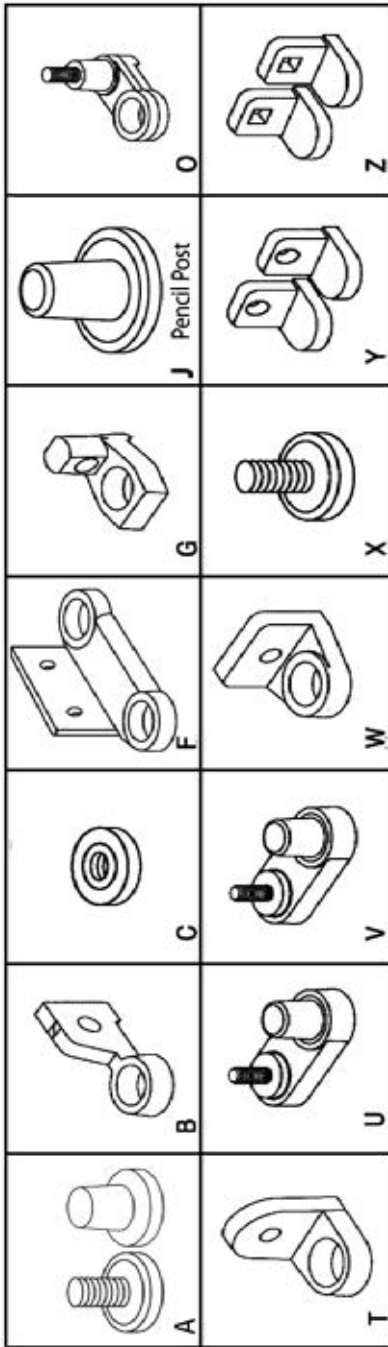
BATTERY SPECIFICATIONS (continued)

GROUP NO.	TW PART NO	PART NO.	CCA	PERFORMANCE LEVEL 10 HR CAPACITY		WEIGHT		LENGTH		WIDTH		HEIGHT		CORE VALUE	FOOTNOTES	
				lb	kg	in	mm	in	mm	in	mm					
POWER SPORTS AGM VALVE REGULATED																
	ETX9		120	8	7.2	3.2	5-7/8	150	3-7/16	88	4-3/16	106	0.0	2.38.39		
	ETX12		180	10	9.4	4.3	5-7/8	150	3-7/16	88	5-1/8	130	0.0	2.38.39		
	ETX14		220	12	12	5.4	5-7/8	150	3-7/16	88	5-3/4	145	0.0	2.38.39,42.75		
	ETX14L		220	12	12	5.4	5-7/8	150	3-7/16	88	5-3/4	145	0.0	2.38.39		
	ETX15		220	14	11.3	5.1	5-1/4	134	3-1/2	90	6-9/16	166	0.0	2.38.39,42.76		
	ETX15L		220	14	11.3	5.1	5-1/4	134	3-1/2	90	6-9/16	166	0.0	2.38.39		
	ETX16		325	19	17	7.7	6-7/8	175	4	100	6-1/8	155	0.0	2.38.39,42.74		
	ETX16L		325	19	17	7.7	6-7/8	175	4	100	6-1/8	155	0.0	2.38.39,42.74		
	ETX18L		340	20	18	8.2	8-1/8	206	3-9/16	91	6-3/8	163	0.0	2.38.39		
	ETX20L		310	17.5	15.5	7	6-7/8	175	3-7/16	88	6-1/8	155	0.0	2.38.39		
	ETX30L		400	26	21.5	9.8	6-5/8	168	5-3/16	131	6-7/8	175	0.0	2.38.39		
	ETX30LA		400	26	21.5	9.8	6-5/8	168	5-3/16	131	7-3/4	197	0.0	2.38.39,78		
GROUP NO.	TW PART NO	PART NO.	CCA	PERFORMANCE LEVEL		VOLTS	WEIGHT (lb)		LENGTH		WIDTH		HEIGHT		CORE VALUE	FOOTNOTES
				RES. CAP.	REF. CA		DRY	in	mm	in	mm	in	mm			
DRY CHARGED																
24	624MFD		675	115	850	12	26	10-3/4	273	6-3/4	171	9	229	\$10.0	23.45	
4D			1050	290	1280	12	58	20-3/4	527	8-1/2	216	10-1/8	258	\$30.0	12.17.23.25	
8D			1400	430	1700	12	80	20-3/4	527	11	279	10	254	\$40.0	12.17.23.25	
31	1231MFD		1000	185	1190	12	43	13	330	6-3/4	171	9-1/2	241	\$15.0	19.21.22.23.X	
U1	8U1LD		230	—	275	12	10.5	7-3/4	197	5-1/8	130	7-1/4	184	\$5.0	8.22.23.Z	
U1R	8U1RD		230	—	275	12	10.5	7-3/4	197	5-1/8	130	7-1/4	184	\$5.0	8.22.23.Y	
GROUP NO.	TW PART NO	PART NO.	CCA	PERFORMANCE LEVEL		VOLTS	WEIGHT (lb)		LENGTH		WIDTH		HEIGHT		CORE VALUE	FOOTNOTES
				RES. CAP.	20 HR CAP		DRY	in	mm	in	mm	in	mm			
DRY CHARGED																
2HN		2HND	400	75	45	12	26	10-3/4	260	5-1/4	133	9	229	\$10.0	12.21.25.32	
4HN		4HND	235	28	21	24	58	20-3/4	260	5-1/4	133	9	229	\$10.0	11.17.21.25.32	
6TL		6TMFD	750	230	120	12	80	20-3/4	286	10-1/2	267	9	229	\$20.0	6.17.21.25	

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UNDER THE HOOD / SOUS LE CAPOT

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- A. Flush combination terminal w/ 3/8" stud and SAE Post, hex nuts included
- B. Flag terminal w/ 3/8" diameter hole (T876)
- C. 1/4" x 20 Copper Insert Terminal
- F. Double Wide L Terminal w/ two 3/8" holes (T230)
- G. Offset post w/ horizontal hole, stainless steel 5/16" bolt and hex nut (T881)
- J. JIS Terminal "pencil post" and hex nut (T872)
- O. Offset post w/ vertical stainless steel 5/16" stud and hex nut (T872)
- T. Heavy Duty L terminal w/ 3/8" diameter hole (T975)
- U. Molded-in offset SAE post and vertical 5/16" NEG., 5/16" POS. stainless steel studs & hex nuts
- V. Molded-in offset SAE post and vertical 5/16" NEG., 5/16" POS. stainless steel studs
- W. "L" type terminal w/ 5/16" diameter hole (T882)
- X. 3/8" x 16 stainless steel stud posts
- Y. Small L terminal with round holes

- V. Molded-in offset SAE post and vertical 5/16" NEG., 5/16" POS. stainless steel studs
- W. "L" type terminal w/ 5/16" diameter hole (T882)
- X. 3/8" x 16 stainless steel stud posts
- Y. Small L terminal with round holes

- All batteries are maintenance-free calcium grids except where noted
- All batteries manufactured in polypropylene cases and covers except where noted
- All batteries manufactured in black case and black cover except where noted
- All batteries, except Power Sports, have SAE automotive post unless noted
- Warranty is suggested months
- All weights are approximate weight
- MCA and CA ratings @ 32°F for comparison only
- All ratings except CCA and RC are "nominal"
- Ratings conform to B.C.I. specifications

- 23. Up to 10% reduced capacity
- 25. With individual vent caps
- 26. Venting Elbow Supplied
- 32. Available dry charged only
- 34. Ratings after 15 cycles
- 35. Deduct 15% from CCA and CA rating shown to allow for double insulation (glass mat)
- 36. Peak performance capacity
- 37. For height with adapter add 7/8" (22mm)
- 38. "Non-spillable" defined by DOT (Department of Transportation) definitions
- 39. "Non-spillable" defined by ICAO (International Civil Aviation Organization) and IATA (International Air Transport Association) definitions
- 42. Height without adapter
- 43. Free replacement warranty is 12 months in deep-cycle use and 3 months in full electric vehicle use
- 44. Free replacement warranty is 3 months in full electric vehicle use
- 45. If battery is used in on-highway vehicles equipped with two-way radios (such as taxis, police, and emergency vehicles), marine applications, off-highway use, and other non-automotive usage, free warranty replacement period will be 6 months and 3 months in full electric vehicle use
- 46. If battery is used in on-highway vehicles equipped with two-way radios (such as taxis, police, and emergency vehicles), marine applications, off-highway use, and other non-automotive usage, free warranty replacement period will be 18 months, free replacement warranty is 12 months in deep-cycle use and 3 months in full electric vehicle use
- 74. Shipped with 20mm adapter
- 75. Shipped with two (2) 17mm adapters
- 76. Shipped with 10mm adapter
- 78. Shipped with 22mm height adapter

FOOTNOTES

- 2. Black cover / Gray case
- 4. Gray cover / Gray case
- 6. Black cover / Brown case
- 8. Dry charged batteries have black covers & white cases
- 11. Low maintenance-low antimony grids
- 12. Hybrid construction
- 13. Absorbed Glass Mat technology
- 14. Centerline terminal posts
- 15. Hard rubber, one-piece cover construction
- 16. Dual terminal universal design
- 17. Includes handle
- 18. Includes top adapter
- 19. Includes lifting ledges
- 20. Hard rubber, multi-cell cover construction
- 21. Anchor locked elements
- 22. Flush manifold vented cover

BATTERY SPECIFICATIONS (continued)

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