



Effective June 1, 2007
Supersedes all previous information. Subject to change without notice.

MARINE MASTER™

BATTERY LINE SPECIFICATIONS

GROUP NUMBER	PART NO. (WET)	PERFORMANCE LEVEL					SUGG. WARR.	QUARTS OF ACID	APPROXIMATE WEIGHT		MAXIMUM OVERALL DIMENSIONS (in inches and mm)					FOOT NOTES	
		CCA @ 0°F	RESERVE CAPACITY	MCA @ 32°F	WET	DRY			L	W	H						
12-VOLT MARINE/RV STARTING CALCIUM MAINTENANCE-FREE																	
24	24M7	875	125	1000	24	—	45	—	10%	273	6%	171	9%	238	1,17,22,U 17,22,U 17,22,U 17,22,U		
	24M6	650	120	820	24	—	40	—									
	24M5	550	90	650	24	—	35½	—									
	24M4	460	70	575	24	—	32	—									
27	27M6	750	182	925	24	—	56	—	12½	318	6%	171	9%	238	17,U		
GROUP NUMBER	PART NO. (WET)	PERFORMANCE LEVEL					SUGG. WARR.	QUARTS OF ACID	APPROXIMATE WEIGHT		MAXIMUM OVERALL DIMENSIONS (in inches and mm)					FOOT NOTES	
		CCA @ 0°F	MINS. @ 23 A	MINS. @ 25 A	20 AH RATE	MCA @ 32°F			WET	DRY	L	W	H				
12-VOLT DUAL PURPOSE STARTING/DEEP CYCLE SERVICE																	
24	DP24	550	140	120	65	685	24	—	42	—	10%	273	6%	171	9%	238	12,17,U
27	DP27	650	175	150	80	810	24	—	49	—	12½	318	6%	171	9%	238	12,17,U
31	DP31DT	700	205	182	100	875	24	—	57	—	13	330	6%	171	9½	241	17,21,22,S,X
12-VOLT MARINE/RV HEAVY-DUTY DEEP CYCLE SERVICE (INCLUDING STARTING)																	
24	DC24	500	150	130	75	625	24	—	45	—	10%	273	6%	171	9%	238	11,17,35,U
27	DC27	575	200	175	90	715	24	—	53	—	12½	318	6%	171	9%	238	11,17,35,U
31	DC31DT	650	225	185	105	810	24	—	59	—	13	330	6%	171	9½	241	11,17,21,22,35,S,X
GROUP NUMBER	PART NO. (WET)	PERFORMANCE LEVEL					SUGG. WARR.	QUARTS OF ACID	APPROXIMATE WEIGHT		MAXIMUM OVERALL DIMENSIONS (in inches and mm)					FOOT NOTES	
		CCA @ 0°F	RESERVE CAPACITY	MCA @ 32°F	WET	DRY			L	W	H						
12-VOLT HEAVY-DUTY COMMERCIAL SERVICE																	
4D	804DMM	900	260	1100	30	—	97	—	20%	527	8½	216	10%	258	12,17,25 12,17,25,31		
	904DMM	1050	290	1235	30	—	16	99½								58	
8D	708DMM	1100	325	1340	30	—	117½	—	20%	527	11	279	10	254	12,17,25 12,17,25,31 17,21,25		
	908DMM	1400	430	1340	30	18½	130	80									
	908DMFMM	1500	450	1790	30	—	134	—									
GROUP NUMBER	PART NO. (WET)	PERFORMANCE LEVEL					SUGG. WARR.	QUARTS OF ACID	APPROXIMATE WEIGHT		MAXIMUM OVERALL DIMENSIONS (in inches and mm)					FOOT NOTES	
		CCA @ 0°F	8 AH RATE	6 AH RATE	MCA @ 32°F	WET			DRY	L	W	H					
8-VOLT MARINE AND INDUSTRIAL																	
981	8V195	980	170	166	1170	24	—	90	—	20%	527	7%	184	10%	270	11,15,17,25	
983	819	510	167	158	610	24	—	119	—	24½	622	7½	191	10½	267	11,17,20,25,35,T	
984	821	530	187	177	635	24	—	135	—	27½	699	7½	191	10½	267	11,17,20,25,35,T	
985	825	730	224	212	870	24	—	160	—	26%	683	8½	216	11%	298	11,17,20,25,35,F	
GROUP NUMBER	PART NO. (WET)	PERFORMANCE LEVEL					SUGG. WARR.	QUARTS OF ACID	APPROXIMATE WEIGHT		MAXIMUM OVERALL DIMENSIONS (in inches and mm)					FOOT NOTES	
		20 AH RATE	6 AH RATE	MINS. DISCH @ 75 AMPS	WET	DRY			L	W	H						
6-VOLT MARINE, RV, GOLF CAR, EV, MOTIVE POWER & DEEP CYCLE SERVICE																	
GC2	GC10GMM	190	156	100	10	—	59	—	10%	260	7%	181	10%	276	11,34,G 4,11,30,34,G		
	GC15GMM	215	178	115	12	6½	63	44									
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		CCA @ 0°F	RESERVE CAPACITY	MCA @ 32°F	WET	DRY			L	W	H						
6-VOLT HEAVY-DUTY COMMERCIAL SERVICE																	
4	904MFMM	1000	270	1220	30	—	47	—	12½	318	6%	175	9½	241	21,25		

See other side for detailed explanations of footnotes and symbols.

MEMBERS OF:



GROUP NO.	PART NO.	FOOT NOTES	VOLTS	CCA @ 0°F	REF. MCA @ 32°F	RES. CAP. @ 80°F	APPROX. WT. LBS. (KGS)	DIMENSIONS IN. (MM)								
								L	W	H						
U1	8GU1HM	4,17,38,39,Y	12	175	250	44	23.4 (10.6)	8 ⁵ / ₁₆ (211)	5 ¹ / ₈ (130)	7 ¹ / ₄ (184)						
24M	8G24M	4,17,38,39,U	12	410	575	132	52.5 (23.8)	10 ¹ / ₈ (276)	6 ³ / ₈ (171)	9 ¹ / ₈ (251)						
27M	8G27M	4,17,38,39,U	12	505	700	160	63.2 (28.6)	12 ³ / ₄ (324)	6 ³ / ₈ (171)	9 ¹ / ₈ (251)						
31	8G31DTM	4,17,38,39,S,X	12	550	780	180	70.0 (31.7)	12 ¹⁵ / ₁₆ (329)	6 ³ / ₈ (171)	9 ¹ / ₈ (238)						
4D	8G4DM	4,17,38,39,S	12	970	1245	375	127.0 (57.5)	20 ³ / ₄ (527)	8 ¹ / ₂ (216)	10 (254)						
8D	8G8DM	4,17,38,39,S	12	1150	1470	475	157.0 (71.1)	20 ³ / ₄ (527)	11 (279)	10 (254)						
GC2	8GGC2M	4,38,39,G	6	585	850	345	68.4 (31.0)	10 ¹ / ₄ (260)	7 ¹ / ₈ (181)	10 ¹ / ₈ (276)						
GROUP NO.	PART NO.	MINUTES DISCHARGED AT						AMPERE HOUR CAPACITY				PALLET INFO.		WARRANTY INFO. (MTHS)		
		75 AMPS	50 AMPS	25 AMPS	15 AMPS	8 AMPS	5 AMPS	20 HR. RATE	6 HR. RATE	3 HR. RATE	1 HR. RATE	QTY.	WT. LBS.	FREE REPL.	PRO RATA	TOTAL
U1	8GU1HM	5	12	47	90	190	325	31.6	28.0	25.5	21.0	120	2900	3	3	6
24	8G24M	33	57	140	245	500	845	73.6	64.5	59.3	48.5	44	2450	12	48	60
27	8G27M	40	70	170	300	605	1000	86.4	76.0	69.9	57.0	36	2350	12	48	60
31	8G31DTM	51	84	190	335	690	1160	97.6	85.2	78.6	64.5	36	2570	12	48	60
4D	8G4DM	105	175	395	685	1385	2300	183.0	160.2	147.6	122.0	16	2250	12	48	60
8D	8G8DM	135	220	500	890	1750	3000	225.0	198.0	181.8	150.0	12	2050	12	48	60
GC2	8GGC2M	92	155	375	680	1360	2200	180.0	155.0	136.0	99.0	40	2980	3	9	12

All Dominator Gel batteries have a grey case and grey cover.

IMPORTANT CHARGING INSTRUCTIONS: WARRANTY VOID IF OPENED OR IMPROPERLY CHARGED. Do not install in a sealed container. Constant under or overcharging will damage any battery and shorten its life! Use a good constant potential, voltage-regulated charger. For 12-volt batteries, charge to at least 13.8 volts but no more than 14.1 volts at 68°F (20°C). For 6-volt batteries, charge to at least 6.9 volts but no more than 7.05 volts at 68°F (20°C). The open circuit voltage of a fully charged 12-volt battery is 12.8V and a fully charged 6-volt battery is 6.4V at 68°F (20°C). However, as the battery charges, the building internal pressure (voltage) causes resistance to the charge. Therefore, the on-charge voltage must be higher (at least 13.8V for 12-volt and 6.9V for 6-volt) to overcome this internal pressure (voltage) during charging.

* NON-SPILLABLE by DOT (Department of Transportation), ICAO (International Commercial Airline Organization) and IATA (International Airline Transport Association) definitions.

GROUP NO.	PART NO.	FOOT NOTES	VOLTS	SUGG. WARR.	PERFORMANCE LEVEL				APPROX. WEIGHT lbs. (kg)	MAXIMUM OVERALL DIMENSIONS inches (mm)			
					CCA @ 0°F	RC @ 25 AMP	20 A.H. CAP.	REF. MCA @ 32°F		L	W	H	
MARINE ABSORBED GLASS MAT													
U1	8AU1HM	2,17,38,39,Y	12	6	200	48	32	240	24	10.9	8 ⁵ / ₁₆ (211)	5 ¹ / ₈ (130)	7 ¹ / ₄ (184)
22NF	8A22NFM	2,38,39,G	12	6	350	90	55	420	38.5	17.5	9 ¹ / ₈ (238)	5 ¹ / ₂ (140)	9 ¹ / ₈ (235)
24M	8A24M	2,17,38,39,U	12	36	470	140	79	660	53	24.0	10 ¹ / ₈ (260)	6 ³ / ₈ (171)	9 ¹ / ₈ (251)
27M	8A27M	2,17,38,39,U	12	36	580	175	92	810	63	28.6	12 ³ / ₄ (324)	6 ³ / ₈ (171)	9 ¹ / ₈ (251)
31	8A31DTM	2,17,38,S,X	12	36	800	190	105	1000	69	31.3	12 ¹⁵ / ₁₆ (329)	6 ³ / ₈ (171)	9 ¹ / ₈ (238)
4D	8A4DM	2,17,S	12	36	1110	380	198.2	1420	129	58.5	20 ³ / ₄ (527)	8 ¹ / ₂ (216)	10 (254)
8D	8A8DM	2,17,S	12	36	1350	480	245	1725	158	71.7	20 ³ / ₄ (527)	11 (279)	10 (254)
GC2	8AGC2M	2,G	6	12	690	380	187	915	69.5	32.0	10 ¹ / ₄ (260)	7 ¹ / ₈ (181)	10 ¹ / ₈ (276)
	ETX16LM	2,38,39,42,74	12	12	275	10 A.H. Rating = 19			17.0	7.7	6 ¹ / ₈ (175)	4 (100)	6 ¹ / ₈ (155)
	ETX20LM	2,38,39	12	12	270	10 A.H. Rating = 17.5			15.5	7.0	6 ¹ / ₈ (175)	3 ¹ / ₈ (88)	6 ¹ / ₈ (155)

All Seamate AGM batteries have a grey case and black cover.

IMPORTANT CHARGING INSTRUCTIONS: WARRANTY VOID IF OPENED OR IMPROPERLY CHARGED. Do not install in a sealed container. Constant under or overcharging will damage any battery and shorten its life! Use a good constant potential, voltage-regulated charger. For 12-volt batteries, charge to at least 14.4 volts but no more than 14.6 volts at 68°F (20°C). The open circuit voltage of a fully charged 12-volt AGM battery is 12.8V. However, as the battery charges, the building internal pressure (voltage) causes resistance to the charge. Therefore, the on-charge voltage must be higher (at least 14.2V for 12-volt) to overcome this internal pressure (voltage) during charging.

FOOTNOTES:

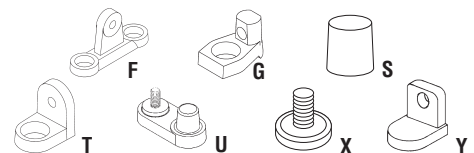
- 1 - White Cover / White Case
- 2 - Black cover / Gray
- 4 - Gray Cover / Gray Case
- 11 - Low maintenance - Low antimony grids
- 12 - Hybrid construction
- 15 - Hard rubber, one-piece cover construction
- 17 - Includes handle
- 20 - Hard rubber, multi-cell cover construction
- 21 - Anchor lock elements
- 22 - Flush manifold vented cover
- 25 - With individual vent caps

- 30 - Available dry - add "D" suffix to part number
- 31 - Available dry - add "Y" suffix to part number
- 34 - Ratings after 15 cycles
- 35 - Deduct 15% from CA and CCA rating shown to allow for double insulation (glass mat)
- 38 - "Non-Spillable" defined by DOT (Department of Transportation) definition
- 39 - "Non-Spillable" defined by ICAO (International Commercial Airline Organization) and IATA (International Airline Transport Association) definitions
- 42 - Height without adapter
- 74 - Shipped with 20mm adapter

- F - Standing upright terminal w/ 3/8" diameter hole (T876)
- G - Offset post w/ horizontal hole, stainless steel 5/16" bolt and hex nut (T881)
- S - SAE "automotive type" post
- T - Heavy Duty L terminal w/ 3/8" diameter hole (T975)
- U - Molded-in offset SAE post and vertical 5/16" NEG., 3/8" POS. stainless steel studs & wing nuts
- V - Molded-in offset SAE post and vertical 5/16" NEG., 5/16" POS. stainless steel studs
- X - 3/8" x 16 stainless steel stud posts
- Y - Small L terminal with round holes

All batteries manufactured in black case and black cover except where noted.
All batteries are maintenance-free calcium grids except where noted.
All ratings except CCA and RC are "Nominal"

All ratings conform to B.C.I. specifications. Dry MF = up to 10% reduced capacity.
All batteries manufactured in polypropylene cases except where noted.
Maintenance-free batteries have microporous, polyethylene envelope separators.



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EAST PENN manufacturing co., inc.

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