



Battery Information for MD-12 and MD-12B FleetPlows

We provide a 12V, 90 AH, group 27, deep cycle, marine battery:



EFFECTIVE June 1, 2019

Supersedes all previous information. Subject to change without notice.



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GROUP NO.	PART NO.	CCA	REF. MCA	20 HR CAP	MINS @ 23 A	MINS @ 25 A	WEIGHT (lb)	LENGTH		WIDTH		HEIGHT		Core Value	WARRANTY FREE MO.	FOOTNOTES
								in	mm	in	mm	in	mm			
12-VOLT MARINE / RV DEEP CYCLE SERVICE																
24	DC24	500	615	75	150	130	45.5	10-3/4	273	6-3/4	171	9-3/8	238	1.0	12	11,17,35,44,U
27	DC27	575	705	90	200	175	53.5	12-1/2	318	6-3/4	171	9-3/8	238	1.0	12	11,17,35,44,U
31	DC31DT	650	800	105	225	190	60	13	330	6-3/4	171	9-1/2	241	1.5	12	11,17,21,22,35,44,A

Note: "DC" (deep cycle) part numbers include double insulated glass mat separators.

COLD TEMPERATURES AND BATTERY PERFORMANCE

Although batteries hold a charge better in cold weather when not being used, the capacity in use (number of trailers or buses) is adversely affected by winter temperatures. Like all FleetFlow™ brand components, the robust battery we provide is specified to exceed the usage requirements in these extreme conditions (-20° F, -29° C).

CAPACITY

Temperature affects capacity. When new, total capacity at room temperature is 356 cycles (vehicles). To get the longest battery service life, it's best to only discharge 50% before recharging.

- @ 32° F, (0° C), capacity is 85% or 302 vehicles. (151 vehicles to 50% discharge)
 - @ 0° F, (-20° C), capacity is 50% or 178 vehicles. (89 vehicles @ 50% discharge)
 - @ -20° F, (-29° C), capacity is 35%, or 124 vehicles. (62 vehicles at 50% discharge)
- ✓ Our battery case will hold up to a type 31 battery size, making it possible to increase the number of vehicles up to 40%.
 - ✓ If you have a larger fleet or frequent snowfalls, we recommend purchasing additional batteries. Spare batteries are not currently sold by Scraper Systems.
 - ✓ The 12V batteries you use for your tractors or buses can also be used in an emergency. However, performance will vary, and those batteries are not deep-cycle and are designed to be constantly recharged by an alternator.

CHARGING

- ✓ The batteries do not have a "memory", so it's best to recharge them to full after each use.
- ✓ A charged battery can be left outside on the FleetFlow, but it will need to be recharged every month to make sure that the battery will be ready to perform when you need it.
- ✓ **It's best to charge the battery inside on a quality battery charger with overcharge protection, then bring it outside and attach it to the FleetFlow for each storm.**
- ✓ Batteries will not freeze if they are charged. However, they can freeze if they are discharged and left outside in cold weather. Do not allow a discharged battery to remain outside and become frozen.
- ✓ To avoid a battery explosion, never attempt to charge a frozen battery. Allow it to warm up to room temperature before placing on charge.
- ✓ Do not overcharge your battery. Utilize a quality charger with overcharge protection.

