

Marine Batteries

WORLD CLASS BATTERY ENGINEERING



Rolls

MARINE SERIES • Flooded & AGM Range

Marine Series



ROLLS MARINE SERIES - TECHNICAL SPECIFICATIONS

Part No.	Capacity in Ah C20	CCA		Dimensions (mm) Length x Width x Height	Weight (Kg)
		@0°C	@-18°C		
Marine Series - 6Volt (3 Cell) - Polypropylene Container					
6-FS-220	220	888	710	259 x 178 x 279	31
6-FS-250	250	948	758	259 x 178 x 292	36
6-FS-350	350	1333	1066	316 x 178 x 425	49
6-FS-400	400	1523	1218	316 x 178 x 425	53
6-FS-450	450	1713	1370	316 x 178 x 425	55
Marine Series - 6Volt (3 Cell) - Dual Container					
6 CS 17P	546	1696	1357	559 x 210 x 464	100
6 CS 21P	683	2175	1740	559 x 248 x 464	123
6 CS 25P	820	2610	2088	559 x 286 x 464	144
Marine Series - 12Volt (6 Cell) - Polypropylene Container					
12-FS-80	80	405	324	279 x 171 x 241	23
12-FS-105	105	506	405	324 x 171 x 241	30
12-FS-125	125	493	394	345 x 171 x 248	34
12-FS-135	136	640	512	345 x 171 x 286	41
12-FS-200	200	810	648	391 x 178 x 365	57
12-FS-221	221	1313	1050	527 x 279 x 254	74
12-FS-275	275	1444	1155	527 x 279 x 254	78
Marine Series - 12Volt (6 Cell) - Dual Container					
12 CS 11P	357	1056	845	559 x 286 x 464	123

Rolls Marine Series

- Coupling of our thick plate design with highest density active material
- Enveloped separators
- Increased liquid reserve
- Greater rigidity
- Sediment chamber removed allowing higher plates to be used in the same sized cell, thus yielding greater capacity
- Less maintenance
- Greater durability

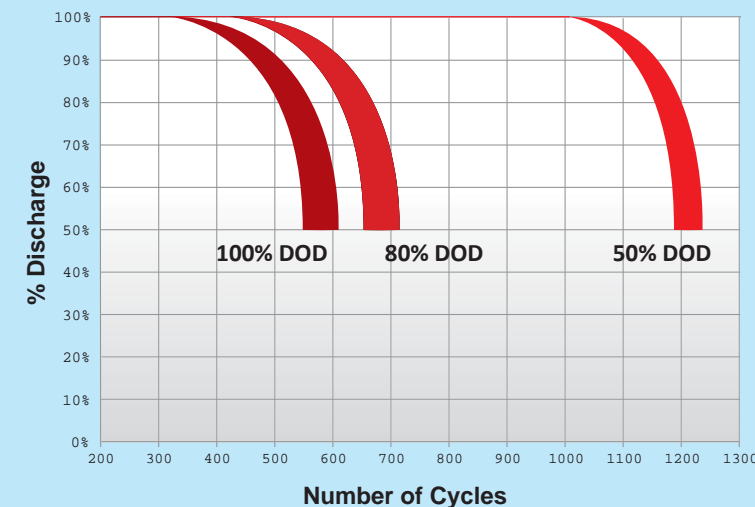
ROLLS MARINE AGM SERIES - TECHNICAL SPECIFICATIONS

Part No.	Capacity in Ah C20	CCA		Terminal Type	Dimensions (mm) Length x Width x Height	Weight (Kg)
		@0°C	@-18°C			
AGM Series - 2Volt Deep Cycle						
S2-1275AGM	1200	-	-	DT	295 x 178 x 424	58
AGM Series - 6Volt Deep Cycle						
S6-275AGM	250	1100	960	M8-TP08	262 x 181 x 273	35
S6-370AGM	335	1845	1550	DT	295 x 178 x 366	48
S6-460AGM	415	2180	1850	DT	295 x 178 x 424	56
AGM Series - 12Volt Deep Cycle						
S12-95AGM	85	854	712	M8-TP08	260 x 169 x 237	25
S12-116AGM	105	1080	900	M8-TP08	307 x 169 x 233	30
S12-128AGM	115	1200	1000	M8-TP08	328 x 172 x 236	33
S12-160AGM	145	975	820	M8-TP08	341 x 173 x 309	44
S12-230AGM	210	1425	1180	LT	530 x 209 x 218	61
S12-240AGM	215	1645	1372	DT	381 x 178 x 371	60
S12-290AGM	260	1830	1525	LT	521 x 269 x 224	78

AGM Series



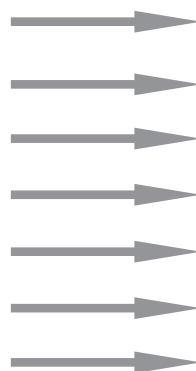
Cycle Life vs. Depth of Discharge



Roll's Deep Cycle AGM Series

Features:

- Sealed construction
- High density paste
- Heavy duty thick grids
- ABS case and cover
- Low internal resistance
- Microporous glass mat separator
- Available in all standard sizes



Benefits:

- Maintenance-free, spill proof, non hazardous
- High capacity and long life
- True deep cycle construction
- Rugged construction, shock and vibration resistant
- Faster recharge time
- Enhanced electrolyte retention maximises capacity
- Meets all application requirements



Deep Cycle

Specially designed deep-cycle batteries are much less susceptible to degradation due to cycling, and are required for applications where the batteries are regularly discharged, such as Marine. These batteries have thicker plates that can deliver slightly less peak current, but can withstand frequent discharging.

Sizing your Deep Cycle Battery:

The chart below shows some typical examples of calculations necessary when trying to size your deep cycle batteries.

Description	Watt @ 12V	Amps	X hrs/day	= Ah
Autopilot	20	1.67	5.0	8.33
Echo sounder	4	0.33	7.0	2.33
Instrument Lamp	10	0.83	5.0	4.17
Log	2	0.17	7.0	1.17
Nav. Lamps	80	6.67	6.0	40.00
VHF Transmission	50	4.17	0.2	0.83
VHF Reception	5	0.42	5.0	2.08
Fridge	55	4.58	8.0	36.67
Bilge Pump	50	4.17	0.1	0.42
Sink Pump	50	4.17	0.3	1.25
FM Radio	40	3.33	2.0	6.67
TV	40	3.33	2.0	6.67
Reading Lamp	15	1.25	3.0	3.75
Sundry	60	5.00	3.0	15.00
TOTAL				129.34

The total load in this scenario is 129.34Ah. Unfortunately you cannot use a 130Ah battery as the battery will not be able to provide a useful voltage at 100% discharge. Therefore in this example you should have a minimum battery capacity of 260Ah. This can be made up using one very large 12V battery or multiple smaller batteries.

It is important to remember most manufacturers recommend a maximum of three batteries in parallel. This is to avoid battery imbalance which can occur during normal cycling.

A REPUTATION WELL EARNED!

Rolls batteries have been the batteries of choice by serious sailors for over 60 years. Specifically designed for the marine environment, Rolls batteries have the highest lead content and largest liquid reserve of any other deep cycle battery. This makes Rolls the battery with the longest useful life available.



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