## **Advantage of HRL Batteries over SMF VRLA Batteries**

DESCRIPTION	HRL	STANDARD SMF VRLA	BENEFIT OF HRL
TECHNOLOGY	SEALED MAINTENANCE FREE, FRONT TERMINAL DESIGN	SEALED MAINTENANCE FREE, TOP TERMINAL DESIGN	SAFE & EASY TO INSTALL, USE BUS BAR
PICTURE		ROCKET CANADA	HRL IS HAVING ½ FOOTPRINT IN COMPARISON TO ESC SERIES.
DESIGN RATING	C10 ( BEST SUITED FOR HEAVY DISACHARGE APPLICATION)- 10 HRS RATED	C20 RATED- 20 HRS RATED	DESIGNED FOR HIGH DISCHARGE, HELPS IN REDUCING THE NO.OF BATTERIES IN COMPARISON TO STD VRLA.
DISCHARGE PERFORMANCE	DESIGNED FOR HEAVY DISCHARGE PERFORMANCE	NOT DESIGNED FOR HEAVY DISCHARGE PERFORMANCE	IT IS DESINGED TO DELIVER HEAVY DISCHARGE EVEN FOR SHORT DURATION
WORKING TEMPERATURE	25 DEG	25 DEG	IT IS THE RECOMMONDED TEMPERATURE FOR AGM VRLA TECHNOLOGY
DoD vs Cyclic life	20% DOD- 1500+ CYCLES 50% DOD- 1100+ CYCLES 80% DOD- 450+ CYCLES	20% DOD- 1200 CYCLES 50% DOD- 800-900 CYCLES 80% DOD- 300+ CYCLES	APPROX 30% MORE CYCLIC LIFE AT VARIOUS DOD.
PSOC PERFORMANCE	GOOD	NOT AS C10 RATED BATTERIES	CHARGE ACCEPTANCE OF C10 BATTERY IS HIGH. IT IS DESIGNED ON 10 HR RATING INSTEAD OF C20 (20 HR RATING)
INTERNAL TEMPERATURE EFFECT	GREAT STABILISATION ON HIGH TEMPERATURE	EVAPORATION INCREASES DUE TO HIGH TEMPERATURE	DESIGN IS MADE IN SUCH A WAY TO STABILISE AT HEAVY DISCHARGE PERFORMANCE.
DEEP CYCLE USAGE	WORKS WELL IN DEEP CYCLE, DESIGNED @ 1.67ECV	NEED BOOST CHARGE FOR RECOVERY	DESIGNED @ 1.67 ECV INSTEAD TO 1.75 AS STD. CAN HANDLE DEEP DISCHARGE PERFORMANCE

INTERCONNECTION	INCLUDES Cu BUS BAR	NO INTERCONNECTION	Cu BUS IS DESINGED
	FORHEAVY DISCHARGE	INCLUDED	TO PERFORM FOR
			HEAVY DISCHARGE
TERMINAL	COMES WITH FRONT	TERMINAL IS NOT THE	BETTER SAFETY IN
INSULATION	TERMINAL CAP	STANDARD ACCESSORY.	HRL.
		TO SUPPLIED	
		SEPERATELY	

## Abbreviation-

- PSOC- PARTIAL STATE OF CHARGE
- DoD- DEPTH OF DISCHARGE
- CYCLE- 1 DISCHARGE + 1 CHARGE COMBINED MAKES 1 CYCLE.
- ECV- END CELL VOLTAGE (end voltage beyond which we don't recommend further discharge from battery)
- C10- DESIGNED ON 10 HR RATING
- C20- DESIGNED ON 20 HR RATING.
- DEEP CYCLE- WHEN WE DISCHARGE THE BATTRY TILL ITS LOWEST RECOMMONDED VOLTAGE
- BUS BAR- INTERCONNECTION Cu LINKS.