

AGM High Density Power

High capacity • deep cycle • long life • extended cycle life



Datasheet



AGM - HD series - VRLA battery

6V-260 Ah • 6V-312 Ah • 6V-390 Ah • 12V-234 Ah

- Maintenance free multi cycle battery
- Extended cycle life > 2000 cycles
- HD = extremely compact
- Suitable for high power charge and discharge use
- Low self discharge
- Suitable for marine/ mobile/ industrial back up use
- Vibration proof
- Safe and reliable



smart energy solutions

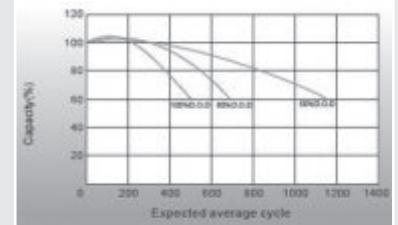


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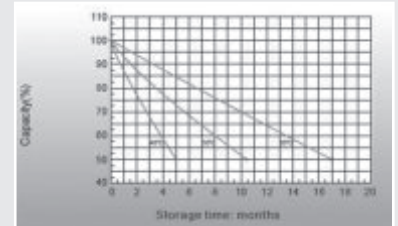


AGM High Density Power	Art. Nr.	40290261	40290262	40290263	40290271
Specifications					
Nominal capacity (C20)		260 Ah	312 Ah	390 Ah	234 Ah
Nominal voltage		6.0 V-DC	6.0 V-DC	6.0 V-DC	12.0 V-DC
Type	High Density Deep cycle Absorbed Glass Mat battery with 1700 cycle life and 10 years floating design life, specially designed for frequent cyclic discharge usage. By using strong grid and specific paste plate, gives the battery 60% more cyclic life. Applicable for EV and E-propulsion for marine and mobile applications.				
Weight +/- 10%		37.0 Kg	48.5 Kg	54.5 Kg	66.0 Kg
Dimensions l*w*h [mm] (excl. terminals)		295*180*274	295*180*346	295*180*405	387*180*346
Terminal type	Both pole & bold.				
Number of cells		3	3	3	6
Charge/discharge parameter					
Constant voltage Charging (IU, float)	6.80 (13.60) to 6.90 (13.80) V-DC @ 25°C				
Cyclic Charging (IUU, absorption)	7.20 (14.25) to 7.35 (14.60) V-DC @ 25°C				
Recommended charging current limit (higher possible)		65.0 A	78.0 A	97.5 A	58.5 A
Temperature range	4mv/cell/°C				
Discharge cut off voltage	1.75 V @ (A) <= 0.2 C				
100% depth of discharge d.o.d.	1.70 V @ 0.2 C (A) <= 1.0 C				
	1.65 V @ (A) >= 1.0 C				
Rated Capacity @ 25°C					
	rate to 1.75 V per cell	rate to 1.75 V per cell	rate to 1.75 V per cell	rate to 1.80 V per cell	
20 hrs discharge	260.0 Ah	312.0 Ah	390.0 Ah	234.0 Ah	
10 hrs discharge	240.0 Ah	288.0 Ah	360.0 Ah	215.0 Ah	
5 hrs discharge	226.0 Ah	271.0 Ah	331.0 Ah	198.0 Ah	
Peukert Coefficient	1.22p<1.24	1.22p<1.24	1.22p<1.24	1.22p<1.24	
Time reserve minutes	572 minutes	736 minutes	915 minutes	518 minutes	
25 amps discharge					
Self discharge	less than 3% per month @ 25°C				
Storage time	WP-AGM-power batteries can be stored for maximum 6 months at 25°C, Charging recommended before using.				
Battery parameters					
Cranking amps @ 25°C (5 sec)	895 A	865 A	875 A	930 A	
Cycle life at 80% of D.O.D	700	700	700	700	

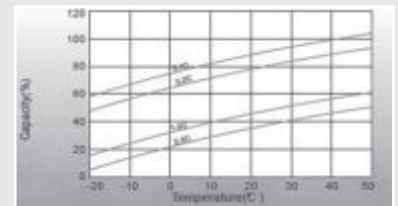
Cycle life in relation to depth of discharge



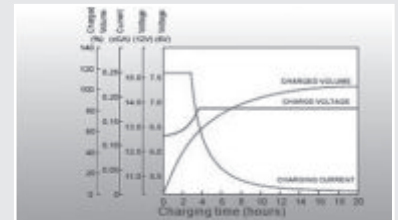
Self-discharge characteristic



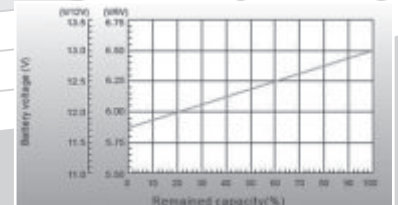
Temperature effects on capacity



Constant voltage charging characteristic (0.25CA, 25°C, 77°F)



Relationship of OCV and state of charge (25°C, 77°F)



Relationship between charging voltage and temperature

