General Use AGM 2.3-12



SPECIFICATIONS

Nominal Voltage	12V				
Dimensions					
Length	178 mm				
Width	35 mm				
Container Height	61 mm				
Total Height	67 mm				
Weight	0,895 Kg				
Max Discharge Current	33,0 A (5s)				
Max Charging Current	0,69 A				
	Charge : -20 to +50 °C				
Operating Temperature	Discharge : -20 to +50 °C				
	Storage : -20 to +50 °C				
Container Material	ABS UL 94 HB				
Container Material	ABS UL 94 V-0 on request				

Capacity @ 25° C					
20 hr @ 1.75V F.V	2,32 Ah				
10 hr @ 1.75V F.V	2.09 Ah				
5 hr @ 1.60V F.V	2,07 Ah				
Short Circuit Current	115 A				
Self Discharge	<3% per month				
Internal Resistance (25 °C)	75 mΩ				
Charging Voltage (25 °C)					
Eleat Charging	13,5 to 13,8 V/block				
Float Charging	(-18mV/°C/cell)				
Custing Chausing	14,4 to 15,0 V/block				
Cycling Charging	(-30mV/°C/cell)				

GENERAL INFORMATION

NORTHBATT General Use AGM series is designed for both stand-by or cyclic applications. It incorporates the latest AGM VRLA technology and excellent know-how. It is tested according to international standard IEC 60896-21, complies to defined requirements of IEC 60896-22, and classified for up to 6AH as 5 Years Lifetime, for 7-26AH as 10 Years Lifetime & for >33AH as "Long Life" 10-12 Years Lifetime according to the EUROBAT 2015 guide.

The unique construction and sealing techniques of General Use AGM series guarantee leak proof operation in any position, with no adverse effect to capacity or service life. The positive plates are made of a grid frame of heavy duty lead-tin-calcium alloy and active material of porous lead dioxide. The negative plates are made of a grid frame of lead-tin-calcium alloy as well and with active material of spongy lead. Plate separators are made of non-woven fabric of fine glass fibers and are chemically stable in the electrolyte sulfuric acid. The high porousness fully prevents shorting between positive and negative plates. The electrode terminals are protected due to both the structure that secures long adhesive - embedded paths and the use of strong epoxy material. They utilize an electrolyte suspension system consisting a high porosity, glass fiber material, which in conjunction with plates, totally absorbs the electrolyte. The incorporated built-in design controls gas generation and induces recombination of more than 99% of gases generated during float usage. Special safety release valves, designed to operate between 2 and 5 psi automatically reseal, preventing an excessive accumulation of gas inside the battery. The battery case & lid are made of ABS material, shock & vibration resistant and can be also available as flame retardant too.

APPLICATIONS

- UPS/EPS Systems
- Security & Fire Alarm Systems
- Emergency Lighting

- Telecom Power Supply
- Back up Power Supply
- Electronics

- Electric toys
- Medical Electronics
- Weighting Scales & Cash Registers

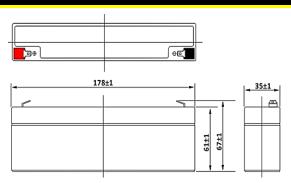
DISCHARGE PERFORMANCE (25 °C)

	CONSTANT CURRENT DISCHARGE DATA (Amperes @ 25 °C)												
	F.V.	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
	1,60 V	7,47	5,86	3,94	2,22	1,82	1,394	0,606	0,485	0,414	0,313	0,217	0,121
A	1,65 V	7,27	5,66	3,84	2,12	1,82	1,364	0,606	0,475	0,404	0,313	0,215	0,119
•	1,70 V	7,17	5,56	3,84	2,12	1,79	1,343	0,606	0,475	0,404	0,303	0,213	0,118
	1,75 V	6,97	5,45	3,74	2,02	1,75	1,313	0,586	0,465	0,394	0,303	0,209	0,116
	1,80 V	6,87	5,35	3,64	2,02	1,72	1,283	0,566	0,455	0,384	0,293	0,205	0,114
		CC	ONSTAN	T POWE	R DISCH	IARGE	DATA (Watts	per cel	l @ 25	°C)		
	F.V.	CC 5min	10min	T POWE	R DISCH	IARGE 1h	DATA (Watts 3h	per cel	@ 25 5h	° C) 8h	10h	20h
	F.V. 1,60 V											10h 0,434	20h 0,241
W		5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	_	
W	1,60 V	5min 13,33	10min 10,51	15min 7,07	30min 3,94	1h 3,54	2h 2,626	3h 1,212	4h 0,970	5h 0,818	8h 0,626	0,434	0,241
W	1,60 V 1,65 V	5min 13,33 13,13	10min 10,51 10,20	15min 7,07 6,97	30min 3,94 3,84	1h 3,54 3,43	2h 2,626 2,626	3h 1,212 1,192	4h 0,970 0,960	5h 0,818 0,818	8h 0,626 0,626	0,434 0,434	0,241

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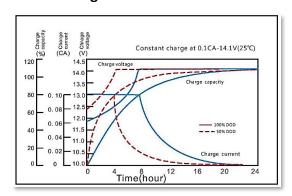
DIMENSIONS - TERMINALS



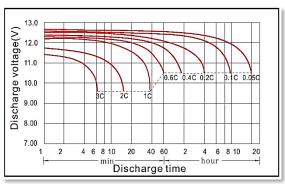


PERFORMANCE CURVES

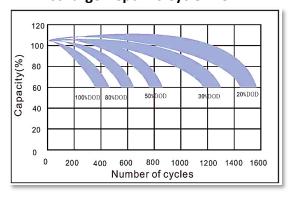
Charge characteristic Curve



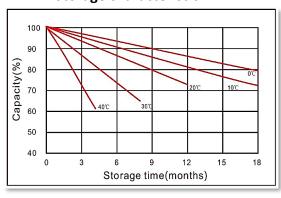
Discharge characteristic Curve



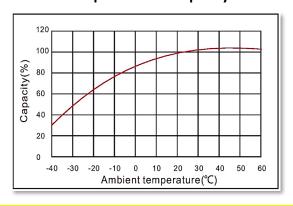
Discharge Depth vs Cycle Life



Storage characteristic



Temperature vs Capacity



O.C.V. vs Capacity

