



DATASHEET
FAT 100-12

12V 100AH

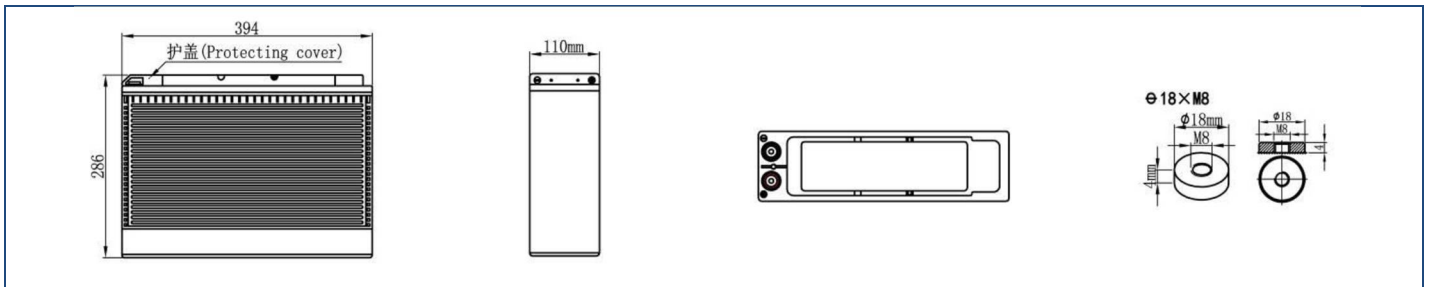
AGM SEALED VRLA BATTERY

EUROBAT 2022 CLASSIFICATION: 12 Years – Long Life

Designed in accordance with IEC 60896-21/22

SPECIFICATIONS

Nominal Voltage	Nominal Capacity	Dimension ±3mm				Weight ±2%	Max Discharge Current (5s)	Internal Resistance	Standard Terminal	Container Material
		L	W	H	TH					
12V	100AH	394mm	110mm	286mm	286mm	30,5kg	-	≈6.5 mΩ	M8	ABS UL-94V0



CONSTANT-VOLTAGE CHARGE

Rated Capacity	
20 hour rate (5.0A)	107.6AH
10 hour rate (10.0A)	102.0AH
5 hour rate (17.0A)	86.0AH
3 hour rate (25.0A)	77.7AH
1 hour rate (60.0A)	65.7AH
Capacity affected by temperature	
40°C (104°F)	103%
25°C (77°C)	100%
0°C (32°F)	86%

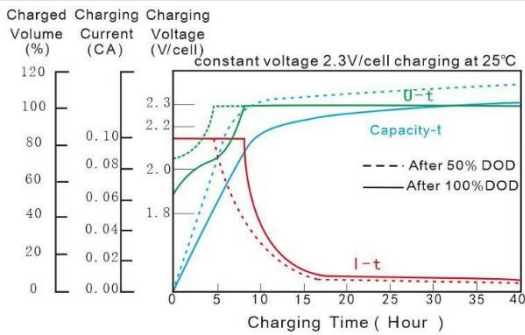
Cycle Application
1. Limit initial current less than 25.0A.
2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C(77°F).
3. Hold at 14.1V to 14.4V until current drop to under 0.60A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby Service
1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 25.0A continuously. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charge status.
2. Temperature compensation coefficient of charging voltage is -18mV/°C.

Nominal Operating Temp. Range
25±3°C (77±5°F)

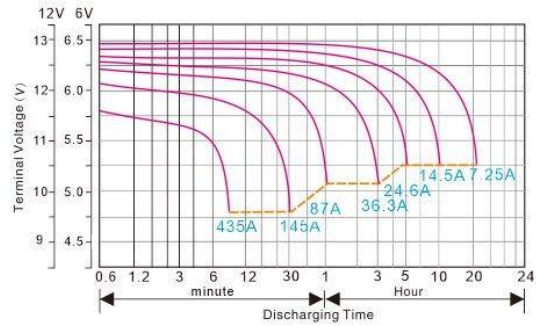
Operating Temperature
Wide operating temperature range from 0°C ~ 40°C

NOTE : The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation

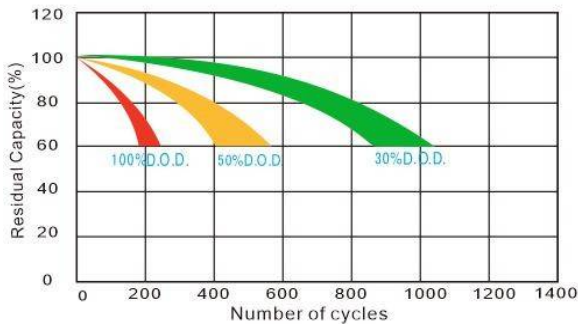
CHARGE CHARACTERISTIC (25°C/77°F)



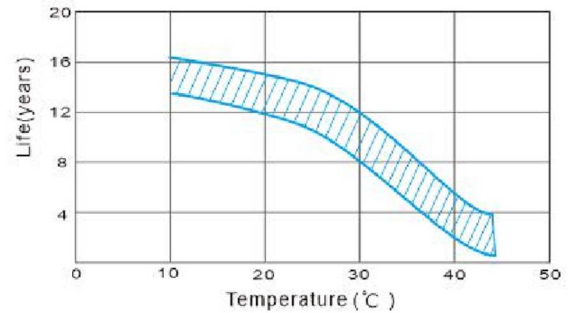
DISCHARGE CHARACTERISTIC (25°C/77°F)



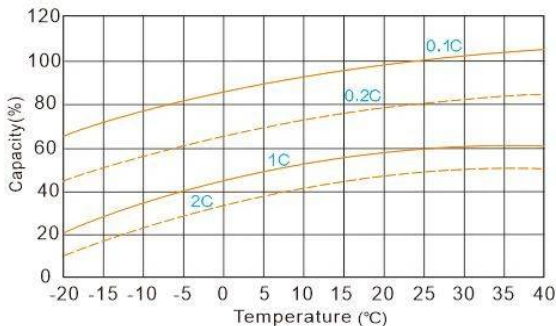
CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



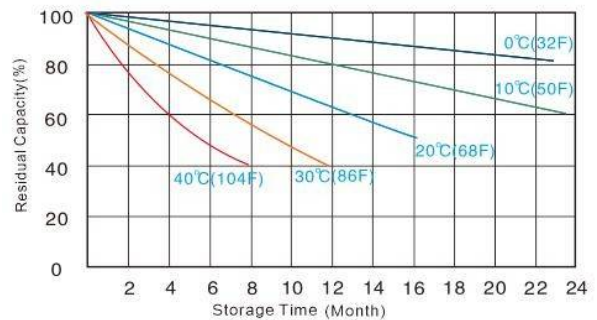
TEMPERATURE VS FLOAT LIFE



CAPACITY CURVE AT DIFFERENT TEMPERATURE



SELF DISCHARGE CHARACTERISTICS



Battery Discharge Table

End Voltage (V)	Minute (M)				Hour (H)							
	10	15	30	45	1	1.5	2	3	5	8	10	20
Constant Current Discharge Data Sheet (Amperes at 25°C)												
9.6V	265	200	106	95.3	65.7	51.9	43.4	27.2	18.9	13.3	11.0	5.76
9.9V	252	190	101	92.1	64.1	50.6	42.3	26.5	18.4	13.1	10.9	5.71
10.2V	240	181	95.9	89.0	62.5	49.4	41.3	25.9	18.0	12.8	10.8	5.65
10.5V	220	169	92.0	85.0	60.0	47.4	39.8	25.1	17.2	12.1	10.5	5.55
10.8V	200	158	88.9	81.0	57.5	45.5	38.3	24.2	16.4	11.5	10.2	5.38
Constant Power Discharge Data Sheet (Watt at 25°C)												
9.6V	2922	2102	1321	964	822	599	451	336	216	159	133	69.5
9.9V	2783	2002	1258	932	802	584	440	328	211	156	131	68.8
10.2V	2650	1907	1198	900	782	570	429	320	206	153	130	68.1
10.5V	2250	1712	1171	880	770	562	415	310	200	151	126	66.0
10.8V	2100	1635	1145	850	735	536	401	299	193	149	120	64.5



ENERPOWER S.R.L.

UFFICI e DEPOSITO: Via Boccioni, 7 - 20900 MONZA (MB)

Tel. +39 (039)-832152 Fax +39 (039)-2230441 E-mail : info@enerpowersrl.com - <https://www.enerpowersrl.com>