



DATASHEET  
**FAT 150-12**

**12V 150AH**

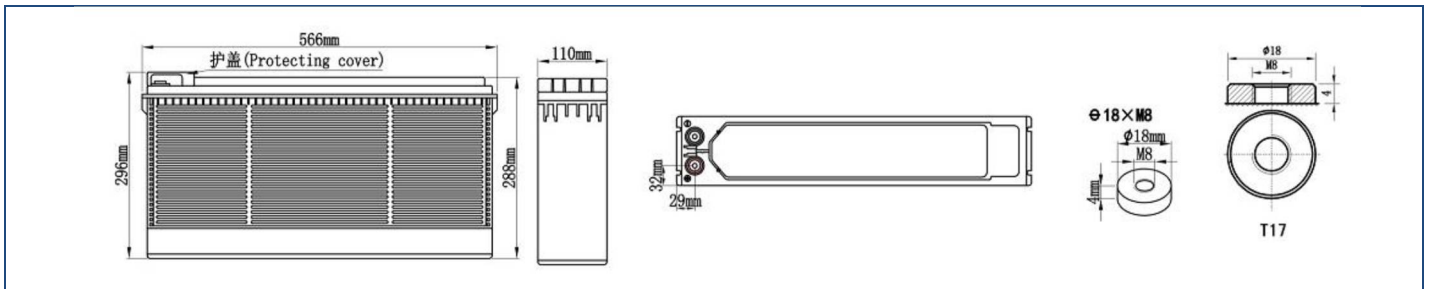
**AGM SEALED VRLA BATTERY**

**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	150AH	566mm	110mm	288mm	296mm	42,5kg	-	≈5.0 mΩ	M8	ABS UL-94V0



**CONSTANT-VOLTAGE CHARGE**

Rated Capacity	
20 hour rate (7.5A)	159.0AH
10 hour rate (15.0A)	150.0AH
5 hour rate (25.5A)	128.5AH
3 hour rate (37.5A)	116.4AH
1 hour rate (90.0A)	98.3AH
Capacity affected by temperature	
40°C (104°F)	103%
25°C (77°C)	100%
0°C (32°F)	86%

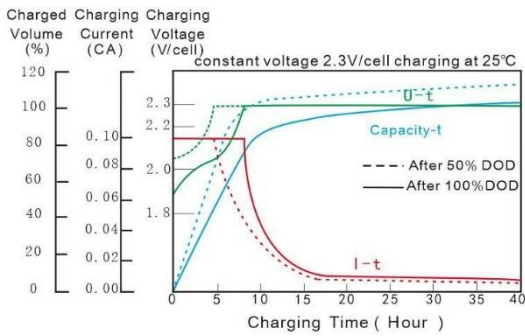
Cycle Application
1. Limit initial current less than 37.5A.
2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C(77°F).
3. Hold at 14.1V to 14.4V until current drop to under 0.84A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby Service
1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 37.5A 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)

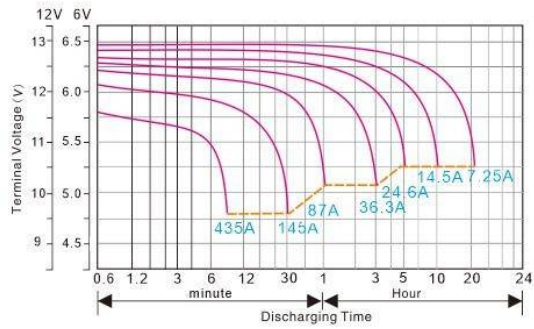
Operating Temperature
Wide operating temperature range from 0°C ~ 40°C

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

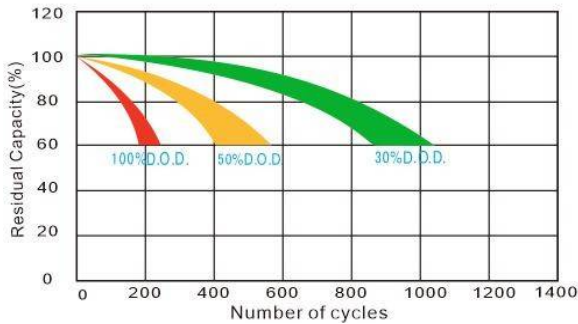
### CHARGE CHARACTERISTIC (25°C/77°F)



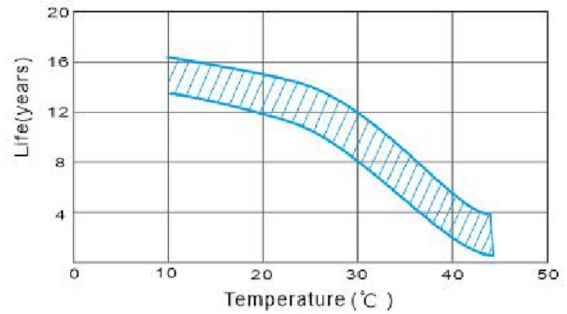
### DISCHARGE CHARACTERISTIC (25°C/77°F)



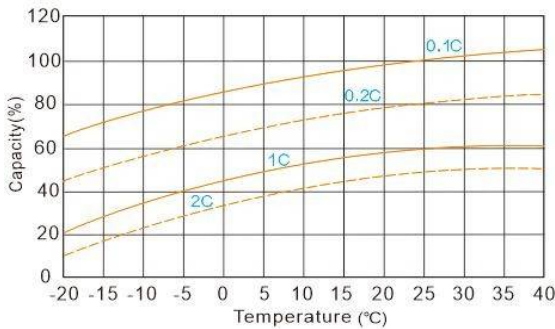
### CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



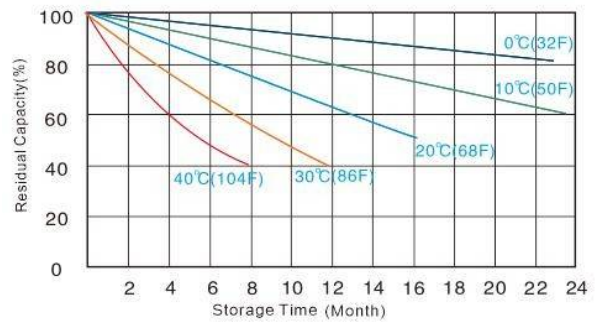
### TEMPERATURE VS FLOAT LIFE



### 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
<b>Constant Current Discharge Data Sheet (Amperes at 25°C)</b>												
9.6V	397	299	159	142	98.3	77.6	65.0	40.8	28.3	19.9	16.2	8.19
9.9V	378	285	151	138	95.9	75.7	63.4	39.8	27.6	19.6	16.0	8.11
10.2V	360	271	144	133	93.6	73.9	61.9	38.8	27.0	19.2	15.9	8.03
10.5V	330	253	138	127	89.9	71.0	59.7	37.5	25.7	18.1	15.6	7.95
10.8V	300	237	133	121	86.1	68.1	57.3	36.2	24.6	17.2	15.0	7.85
<b>Constant Power Discharge Data Sheet (Watt at 25°C)</b>												
9.6V	4382	3154	1981	1446	1232	898	677	504.3	326	239	199	104
9.9V	4174	3004	1887	1397	1202	876	660	492	318	235	197	103
10.2V	3975	2861	1797	1350	1173	855	644	480	310	230	195	102
10.5V	3375	2568	1756	1320	1155	842	623	465	300	227	189	99.0
10.8V	3150	2452	1718	1275	1103	804	602	449	289	224	180	96.8



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