



CHARACTERISTICS



Ideal for any type of use.

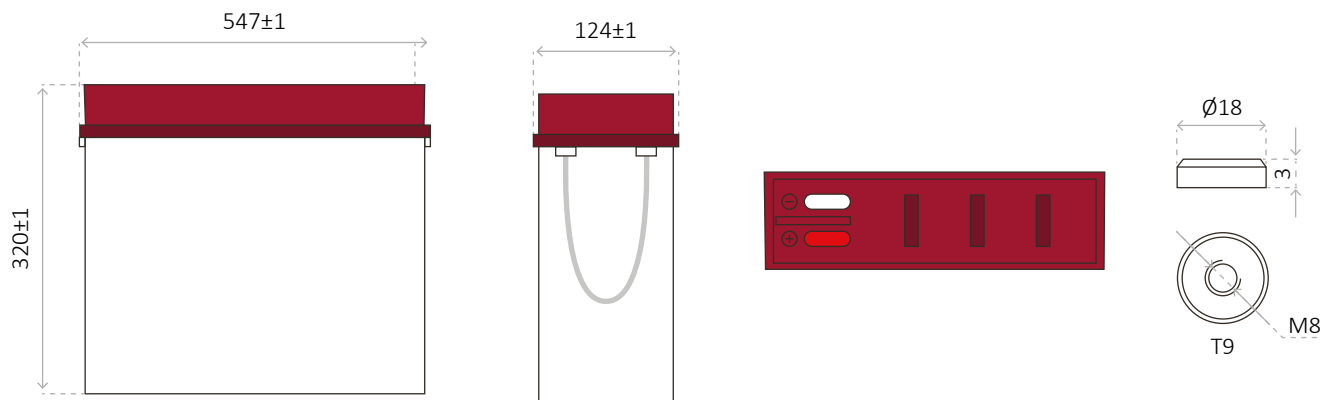


Great performance due to its Deep Cycle technology.



Perfect to use as accumulator in photovoltaic installations.

DIMENSIONS



AGM FRONT TERMINAL BATTERY 12V 250 AH

DEEP CYCLE SERIES BATTERY

FT General Series VRLA batteries are designed with AGM (Absorbent Glass Mat) technology, high performance plates and electrolyte to give extra power output for common power backup system.

FT series Batteries are the general purpose batteries with 12 years floating design life at 25°C. Meet with IEC, BS, JIS and Eurobat standard.



APPLICATION

- Emergency Power System
- Communication equipment
- Telecommunication systems
- Uninterruptible power supplies
- Power tools
- Marine equipment
- Medical equipment
- Solar and wind power system

GENERAL FEATURES

- Safety Sealing
- Non-spillable construction
- High power density
- Excellent recovery from Deep discharge
- Thick plates and high active materials
- Longer life and low self-discharge design

TECHNICAL SPECIFICATIONS

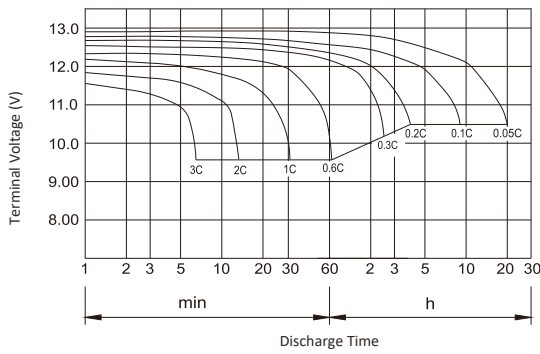
BATTERY MODEL	Nominal voltage			12V			
	Rated capacity (100 hour rate)			250Ah			
	Cells Per battery			6			
DIMENSION	Length 547 mm	Width 124 mm	Height 320 mm	Total Height 320 mm			
APPROX. WEIGHT	55.5 kg ± 3%						
CAPACITY @ 25°C	10 hour rate (9A, 10.8V) 200 Ah	5 hour rate (14.4A, 10.5V) 170 Ah	3 hour rate (22.5A, 10.2V) 150 Ah	1 hour rate (54A, 9.6V) 120 Ah			
MAX. DISCHARGE CURRENT	1400 A (5 sec.)						
INTERNAL RESISTANCE	Full charged Vat 25°C: Approx. 3.8mΩ						
CAPACITY AFFECTED BY TEMP. (10 HR)	40°C 102%	25°C 100%	0°C 90%	-15°C 65%			
SELF DISCHARGE @25°C	After 3 months storage 91%		After 6 months storage 82%		After 12 months storage 64%		
CHARGE METHOD @25°C	Cycle Use 14.4-15.0V (Initial charging current less than 27A)			Float Use 13.50-13.80V			
CONSTRUCTION	Container ABS (UL94-HB) / Flame retardant ABS (UL94-V0)	Electrolyte Sulfuric acid	Separator Fiber glass	Positive Lead dioxide	Negative Lead	Safety valve EPDR	Terminal Copper

BATTERY DISCHARGE TABLE

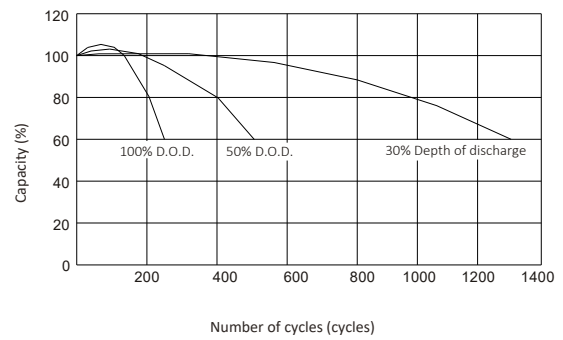
CONSTANT CURRENT (AMP) AND CONSTANT POWER (WATT) DISCHARGE TABLE AT 25 °C

F.V / TIME	5 min	10 min	15 min	30 min	1 hr	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	20 hr	
9.60	A	630.00	420.00	330.00	196.00	120.00	73.10	51.10	41.80	35.70	24.40	20.30	10.70
	W	6616.00	4536.00	3623.00	2199.00	1413.00	847.00	600.00	492.00	422.00	291.00	243.00	128.00
10.20	A	586.00	391.00	310.00	187.00	119.00	72.00	50.30	41.30	35.20	24.20	20.20	10.60
	W	6152.00	4219.00	3406.00	2089.00	1357.00	833.00	592.00	486.00	417.00	287.00	242.00	128.00
10.50	A	561.00	373.00	300.00	182.00	117.00	70.90	50.00	41.00	34.00	24.00	20.10	10.60
	W	5888.00	4037.00	3290.00	2039.00	1330.00	821.00	588.00	482.00	413.00	286.00	240.00	127.00
10.80	A	529.00	353.00	284.00	176.00	113.00	69.10	48.60	39.80	33.00	23.30	20.00	10.50
	W	5557.00	3810.00	3117.00	1963.00	1289.00	800.00	570.00	468.00	401.00	277.00	239.00	126.00
11.10	A	469.00	323.00	267.20	170.10	109.60	67.00	47.10	38.60	32.90	22.60	19.40	10.18
	W	4929.00	3493.00	2933.00	1898.20	1250.30	776.00	552.90	453.90	388.90	268.69	231.83	122.22

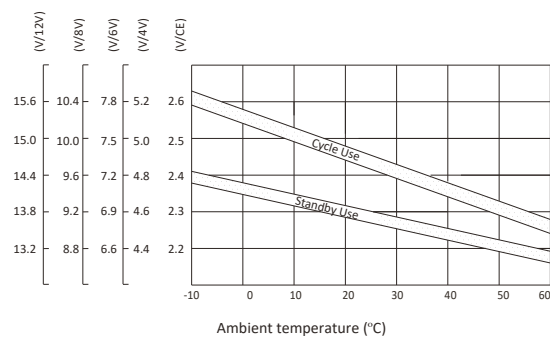
Discharge characteristic Curve



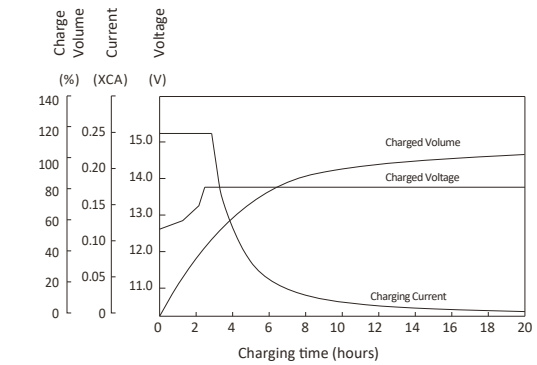
Cycle service life in relation to depth of discharge



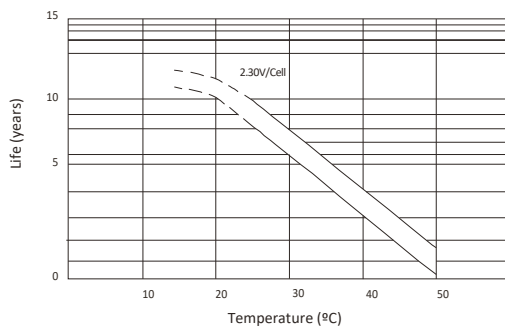
Relationship between charging voltage and temperature



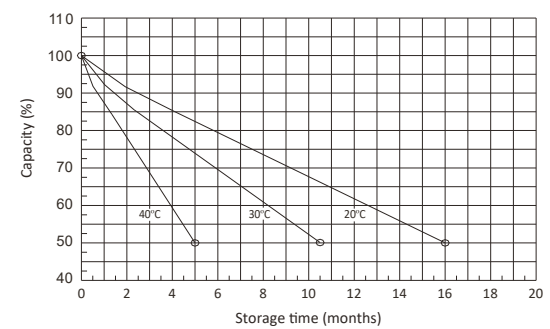
Constant voltage charging characteristic (0.25CA, at 25°C)



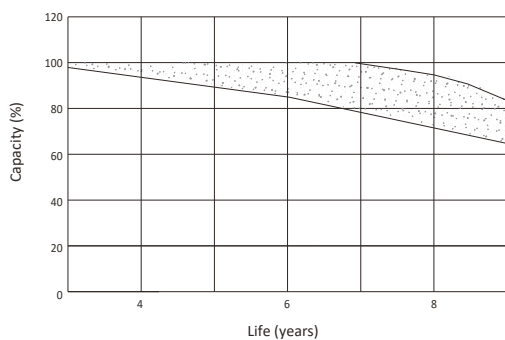
Temperature effects on float life



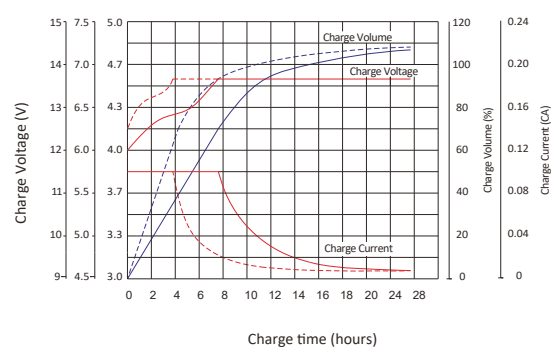
Self-discharge characteristic



Life characteristics of standby use*



Charge characteristic Curve for standby use**



*Testing conditions:
Floating voltage 2.27 to 2.30V/Cell
Ambient temperature 25°C

**Discharge 100% (0.05CA 20h)
Charge Charge Voltage 2.275V/C
Charge Current 0.1CA
Temperature 25°C