



HT12-110(12V110Ah)

Specification



HT series is High-temperature series battery with 15 years design life in float service. It meets with IEC, JIS, BS and YDT standards. With advanced AGM valve regulated technology and high purity raw material, the HT series battery maintains high consistency for better performance and reliable standby service life. It is designed for using under high temperature conditions.

Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	110Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 35.5 Kg (Tolerance±2.0%)
Internal Resistance	Approx. 4.8 mΩ
Terminal	F5(M8)/F12(M8)
Max. Discharge Current	1100A (5 sec)
Design Life	15 years (Float charging)
Recommended Maximum Charging Current	33 A
Reference Capacity	C3 82.8AH C5 95.5AH C10 110.0AH C20 116.4AH
Standby Use Voltage	13.6 V~13.8 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.6 V~14.8 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -20°C~60°C Charge: -10°C~60°C Storage: -20°C~60°C
Normal Operating Temperature Range	35°C±5°C
Self Discharge	RITAR Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25°C. Please charge batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



Dimensions

Length	407±2mm (16.0 inches)
Width	177±2mm (6.97 inches)
Height	225±2mm (8.86 inches)
Total Height	225±2mm (8.86 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

Unit: mm

Constant Current Discharge Characteristics : A (25°C)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	243.9	194.1	115.4	67.7	40.6	29.2	23.7	20.0	13.5	11.7	6.01
1.65V	236.6	189.0	112.9	66.5	40.0	28.8	23.4	19.8	13.4	11.6	5.97
1.70V	227.1	182.3	109.5	64.8	39.2	28.3	23.0	19.5	13.2	11.5	5.90
1.75V	214.7	173.6	105.1	62.6	38.1	27.6	22.5	19.1	13.0	11.3	5.82
1.80V	199.0	162.4	99.5	59.8	36.8	26.7	21.8	18.5	12.6	11.0	5.70
1.85V	179.3	148.3	92.2	56.1	35.0	25.5	20.9	17.8	12.2	10.6	5.55

Constant Power Discharge Characteristics : WPC (25°C)

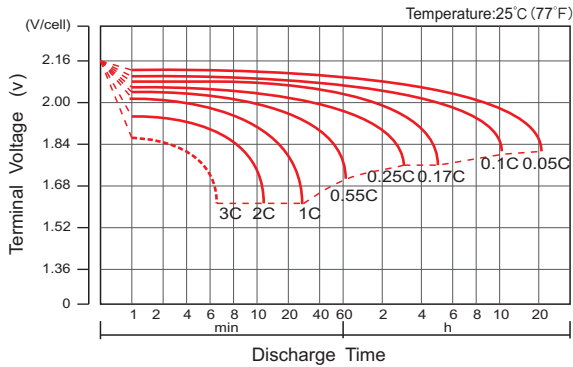
F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	421	344	213	129	78.1	56.6	46.2	39.2	26.8	23.4	12.0
1.65V	419	342	211	127	77.5	56.2	45.9	38.9	26.6	23.2	11.9
1.70V	407	333	206	125	76.2	55.3	45.2	38.4	26.3	22.9	11.8
1.75V	391	322	200	121	74.5	54.2	44.3	37.7	25.8	22.5	11.7
1.80V	369	305	191	116	72.2	52.6	43.1	36.8	25.3	22.1	11.5
1.85V	338	283	179	110	69.0	50.5	41.5	35.5	24.5	21.4	11.2

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

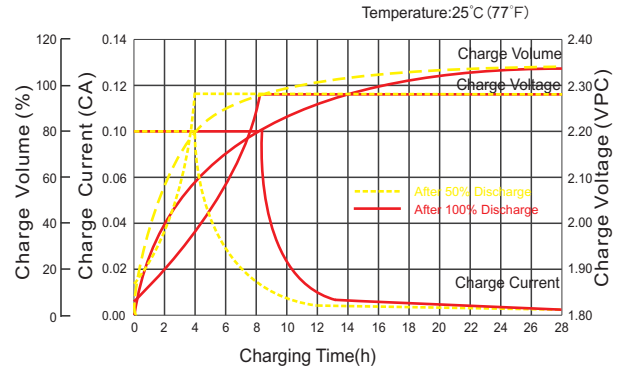
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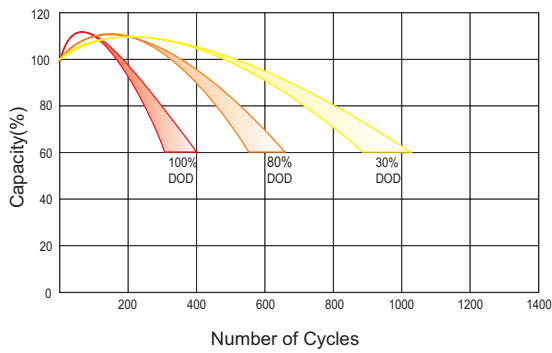
Discharge Characteristics Curve



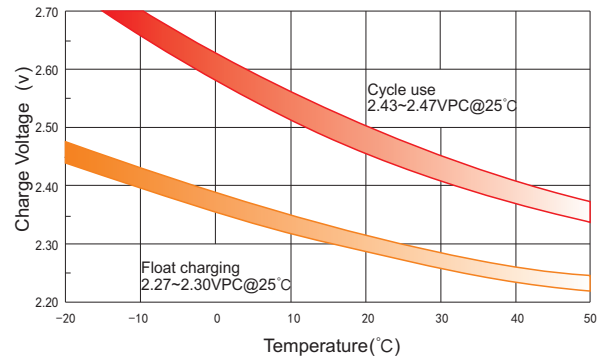
Charge Characteristic Curve For Standby Use



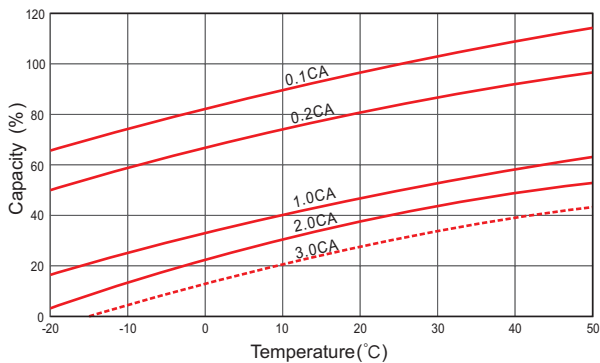
Cycle Life In Relation To Depth Of Discharge



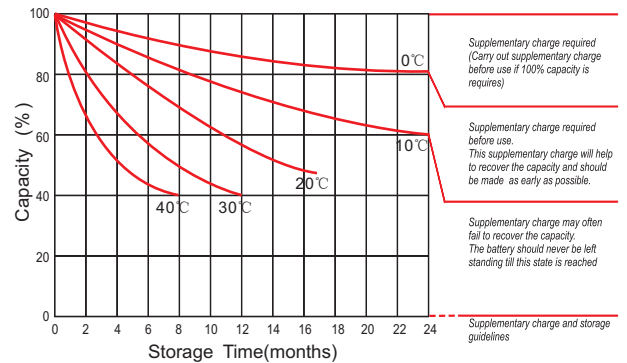
Relationship Between Charging Voltage And Temperature



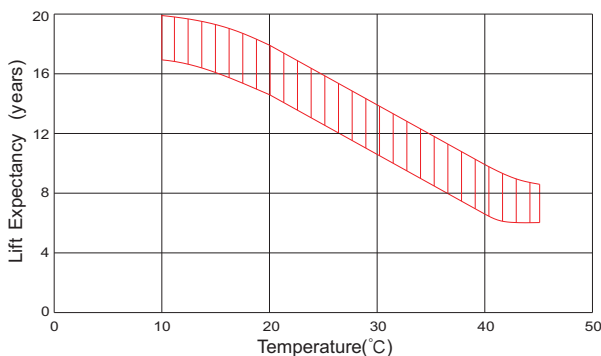
Temperature Effects On Capacity



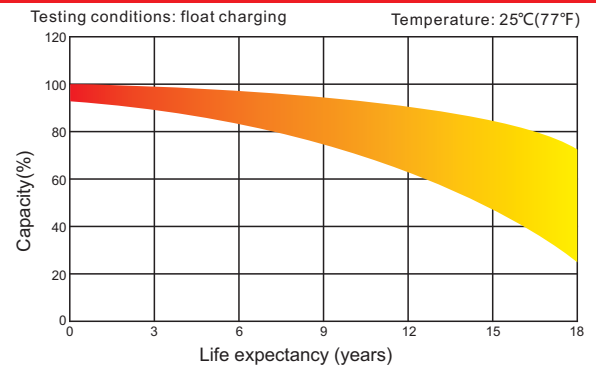
Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use



For Battery Sales + EPA Battery Recycling and AC / DC Power Services, please contact:

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