



HT12-160(12V160Ah)

Specification

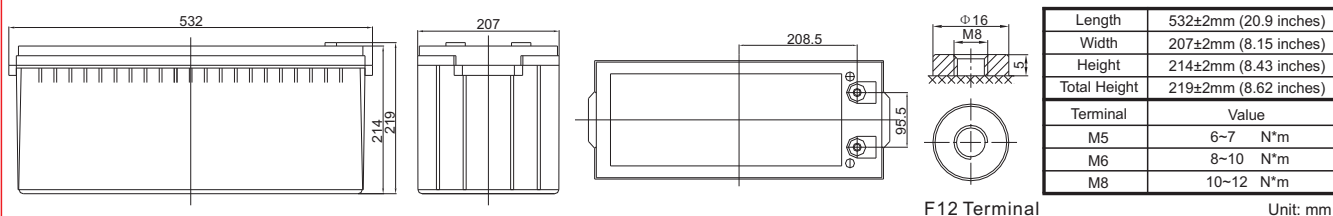
Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	160Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 52.0 Kg (Tolerance±2.0%)
Internal Resistance	Approx. 4.2 mΩ
Terminal	F16(M8)/F12(M8)
Max. Discharge Current	1600A (5 sec)
Design Life	15 years (Float charging)
Recommended Maximum Charging Current	48 A
Reference Capacity	C3 120.3AH C5 138.5AH C10 160.0AH C20 169.2AH
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.



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.



Dimensions



Constant Current Discharge Characteristics : A (25°C)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	336.0	272.8	166.2	97.5	58.4	42.5	34.5	29.1	19.7	17.0	8.75
1.65V	326.0	265.6	162.5	95.7	57.6	41.9	34.1	28.8	19.5	16.9	8.68
1.70V	312.9	256.2	157.7	93.3	56.4	41.1	33.5	28.3	19.2	16.7	8.58
1.75V	295.9	244.0	151.4	90.2	54.9	40.1	32.7	27.7	18.8	16.4	8.46
1.80V	274.2	228.3	143.2	86.1	53.0	38.8	31.7	26.9	18.4	16.0	8.29
1.85V	247.0	208.4	132.8	80.8	50.4	37.1	30.4	25.9	17.8	15.5	8.07

Constant Power Discharge Characteristics : WPC (25°C)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	580	484	306	185	112	82.3	67.2	57.0	39.0	34.0	17.5
1.65V	577	481	304	184	112	81.7	66.7	56.6	38.7	33.7	17.4
1.70V	560	468	297	180	110	80.5	65.7	55.8	38.2	33.3	17.2
1.75V	539	452	288	174	107	78.8	64.5	54.8	37.6	32.8	17.0
1.80V	509	429	275	167	104	76.6	62.8	53.5	36.7	32.1	16.7
1.85V	466	397	257	158	99	73.5	60.4	51.6	35.6	31.1	16.2

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

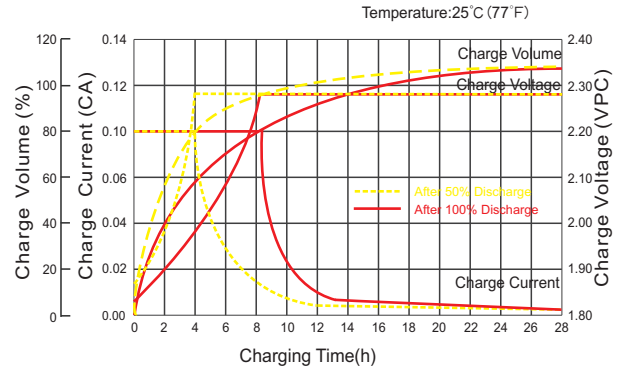
HT12-160(12V160Ah)



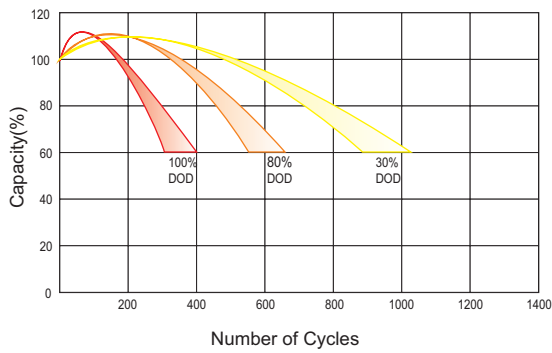
Discharge Characteristics Curve



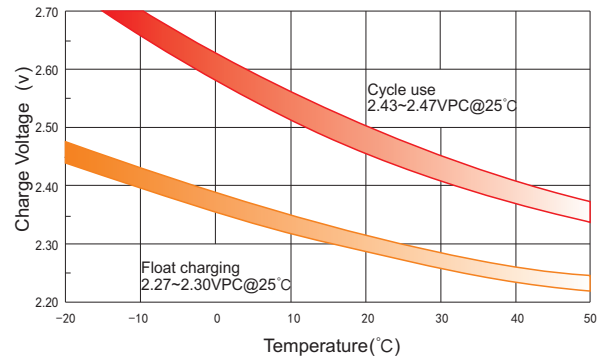
Charge Characteristic Curve For Standby Use



Cycle Life In Relation To Depth Of Discharge



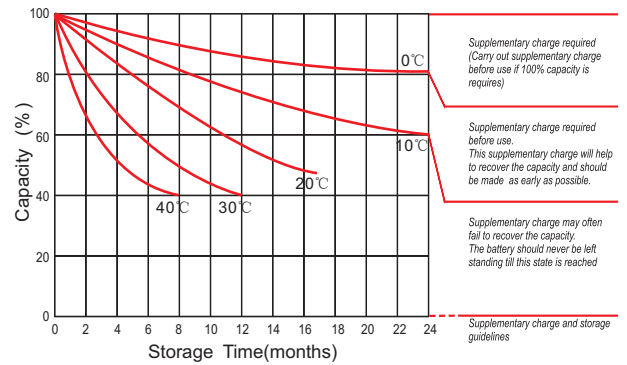
Relationship Between Charging Voltage And Temperature



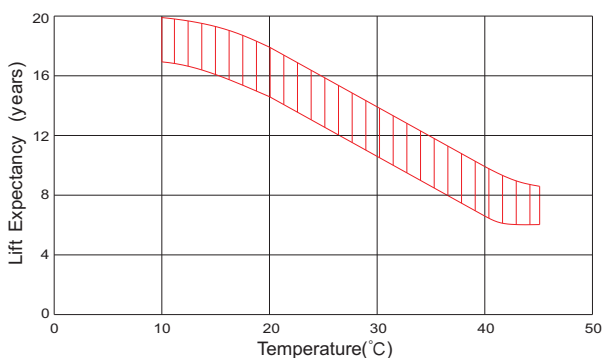
Temperature Effects On Capacity



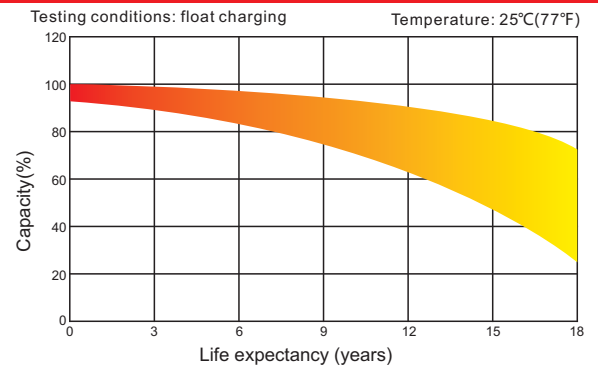
Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use



(Note) All above information shall be changed without prior notice, Ritar reserves the right to explain and update the latest information.