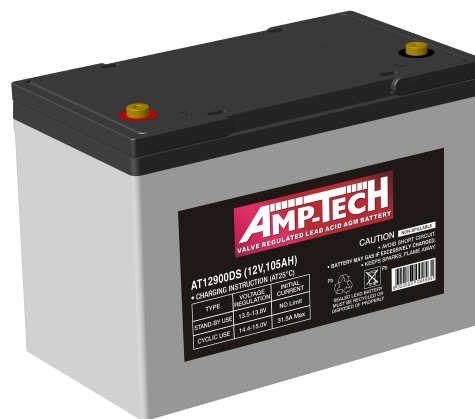
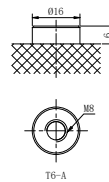
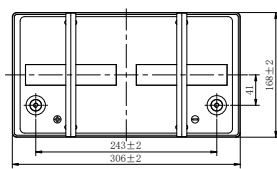
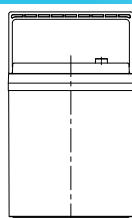
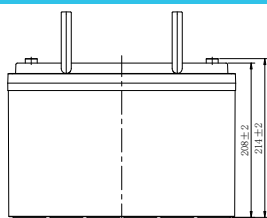


Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	105Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 30.6 Kg (Tolerance $\pm 3.0\%$)
Internal Resistance	Approx. 5.8 m Ω
Terminal	T6-A (M8)
Max. Discharge Current	950A (5 sec)
Design Life	12 years (floating charge)
Max. Charging Current	31.5 A
Reference Capacity	C3 78.0AH C5 78.0AH C10 95.0AH C20 105.0AH
Float Charging Voltage	13.5 V~13.8 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.4 V~15.0 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
Normal Operating Temperature Range	25°C $\pm 5^\circ\text{C}$
Self Discharge	AMP-Tech Plus (VRLA) batteries can be stored for up to 6 months at 25°C then recharging is recommended. Monthly self-discharge ratio is less than 3% at 25°C. Please charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



Dimensions



Length	306±2mm (12.0 inches)
Width	168±2mm (6.61 inches)
Height	208±2mm (8.19 inches)
Total Height	214±2mm (8.43 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
1.85V/cell	137.7	119.4	84.8	52.5	32.0	23.5	18.4	16.0	10.8	8.98	5.01
1.80V/cell	156.2	135.3	92.4	54.4	33.1	25.5	19.7	16.8	11.4	9.50	5.20
1.75V/cell	169.5	146.4	94.2	57.1	34.8	26.0	20.0	17.1	11.5	9.60	5.25
1.70V/cell	180.7	155.5	96.1	58.2	35.5	26.5	20.4	17.4	11.6	9.69	5.30
1.65V/cell	186.5	160.0	97.5	59.1	36.0	26.7	20.7	17.8	11.8	9.79	5.37
1.60V/cell	192.8	165.1	99.0	60.0	36.5	27.0	20.9	18.0	12.0	9.88	5.43

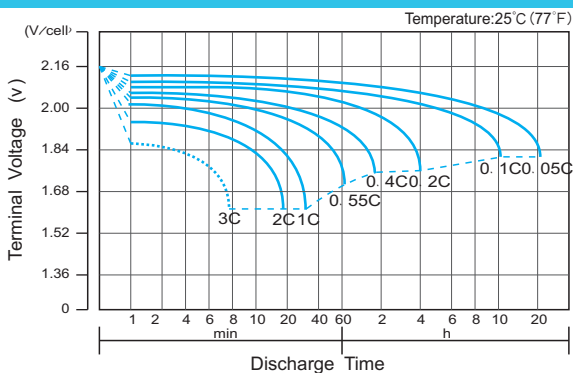
Constant Power Discharge Characteristics : WPC(25°C)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.85V/cell	259.0	226.1	162.1	101.6	62.3	45.9	36.1	31.5	21.5	17.9	10.0
1.80V/cell	289.8	252.8	175.1	104.7	64.0	49.6	38.4	33.0	22.6	18.7	10.3
1.75V/cell	309.2	269.9	177.3	109.4	67.1	50.4	39.0	33.5	22.6	18.8	10.4
1.70V/cell	325.1	283.7	179.3	111.0	68.1	51.2	39.6	33.9	23.0	19.0	10.5
1.65V/cell	330.4	288.3	180.6	112.0	68.9	51.5	40.0	34.5	23.2	19.2	10.6
1.60V/cell	335.0	292.3	181.4	112.8	69.4	51.7	40.3	34.8	23.5	19.4	10.7

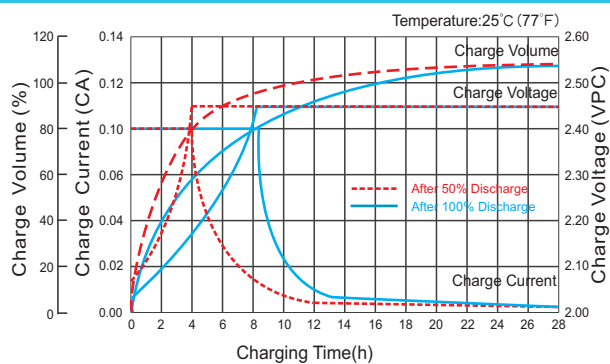
(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

The battery must be fully charged before the capacity test. The C₂₀ should reach 95% after the first cycle and 100% after the third cycle.

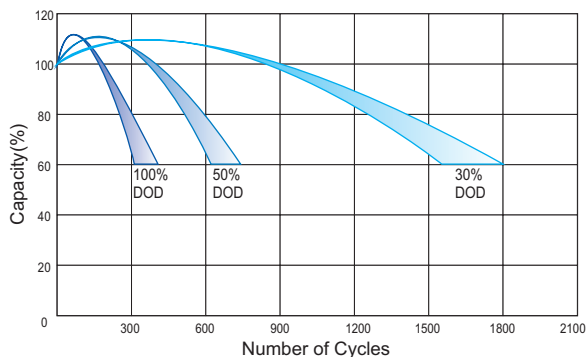
Discharge Characteristics Curve



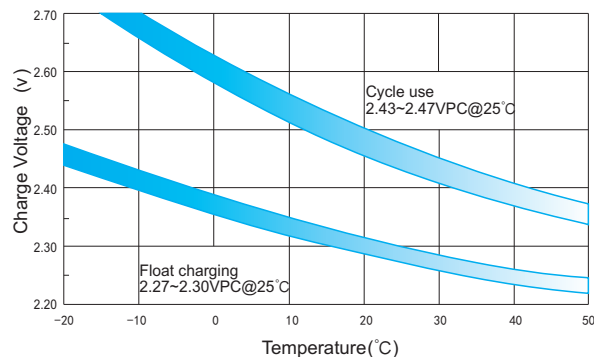
Charge Characteristic Curve for Cycle Use(IU)



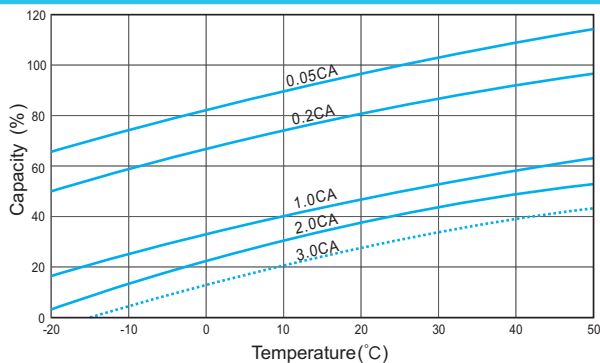
Cycle Life in Relation to Depth of Discharge



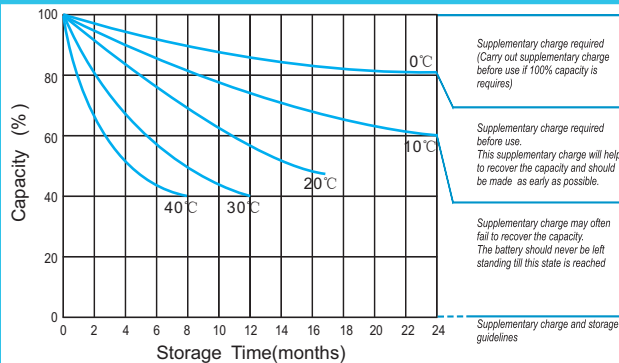
Relationship Between Charging Voltage and Temperature



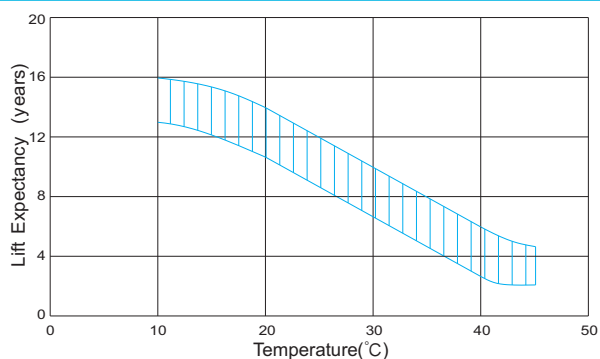
Temperature Effects on Capacity



Storage Characteristics



Effect of Temperature on Long Term Life



Relationship of OCV And State of Charge(20°C)

