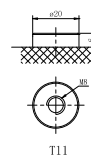
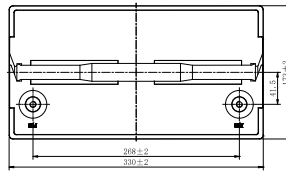
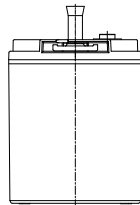
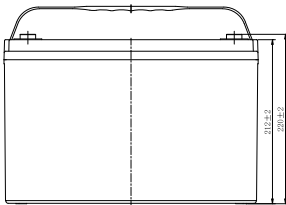


## Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	120Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 31.7 Kg (Tolerance ±3.0%)
Internal Resistance	Approx. 4.5 mΩ
Terminal	T11 (M8)
Max. Discharge Current	1100A (5 sec)
Design Life	12 years (floating charge)
Max. Charging Current	36.0 A
Reference Capacity	C3 89.4AH C5 98.0AH C10 110.0AH C20 120.0AH
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 ±5°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	330±2mm (13.0 inches)
Width	173±2mm (6.81 inches)
Height	212±2mm (8.35 inches)
Total Height	220±2mm (8.66 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)

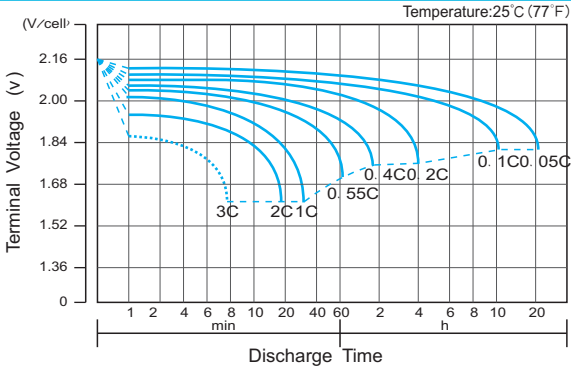
F.V/Time	15MIN	20MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.85V/cell	138.3	108.7	97.2	60.2	36.7	26.9	21.1	18.3	12.4	10.3	5.73
1.80V/cell	156.7	122.9	105.9	62.4	37.9	29.2	22.5	19.3	13.1	11.0	5.94
1.75V/cell	169.6	132.7	108.0	65.5	39.9	29.8	23.0	19.6	13.1	11.1	6.00
1.70V/cell	180.2	140.7	110.2	66.8	40.7	30.4	23.4	19.9	13.3	11.2	6.05
1.65V/cell	185.4	144.6	111.8	67.7	41.3	30.6	23.7	20.4	13.5	11.3	6.14
1.60V/cell	191.2	148.3	113.4	68.7	41.9	30.9	24.0	20.6	13.7	11.4	6.20

### Constant Power Discharge Characteristics : WPC(25°C)

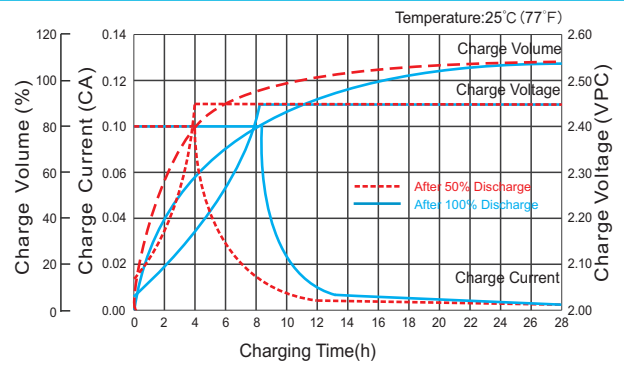
F.V/Time	15MIN	20MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.85V/cell	261.8	206.8	185.8	116.5	71.4	52.6	41.4	36.1	24.7	20.5	11.4
1.80V/cell	292.9	231.4	200.7	120.0	73.4	56.8	44.1	37.8	25.9	21.4	11.9
1.75V/cell	312.6	246.9	203.2	125.3	76.9	57.8	44.7	38.3	25.9	21.6	11.9
1.70V/cell	328.6	259.6	205.5	127.2	78.1	58.7	45.3	38.9	26.3	21.8	12.1
1.65V/cell	333.9	263.8	207.0	128.3	78.9	59.0	45.9	39.5	26.6	22.0	12.2
1.60V/cell	338.6	267.5	207.9	129.3	79.6	59.2	46.2	39.9	26.9	22.3	12.3

(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 C<sub>20</sub> should reach 95% after the first cycle and 100% after the third cycle.

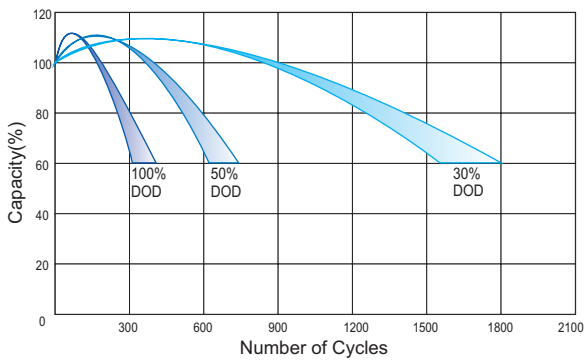
### Discharge Characteristics Curve



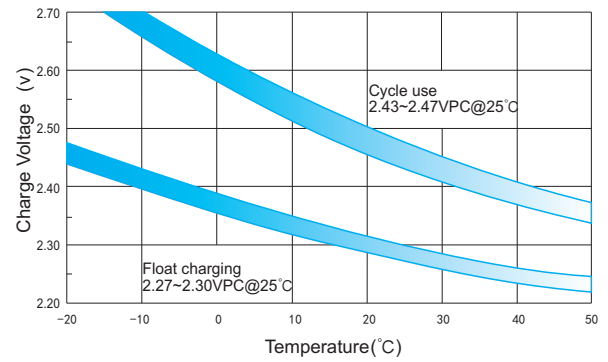
### Charge Characteristic Curve for Cycle Use (IU)



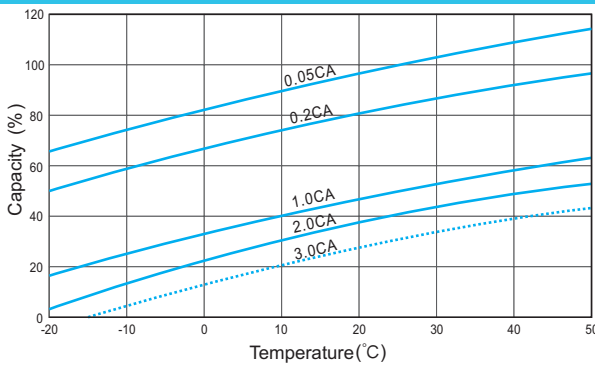
### Cycle Life in Relation to Depth of Discharge



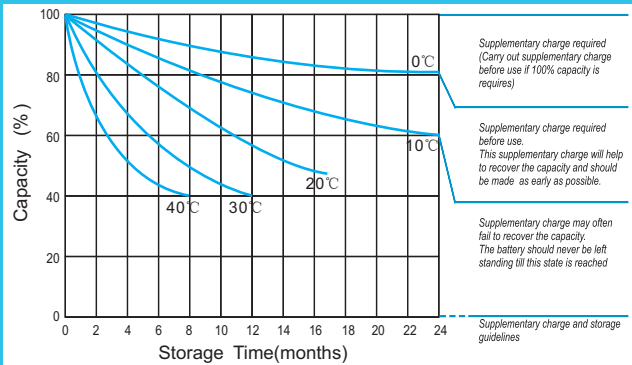
### Relationship Between Charging Voltage and Temperature



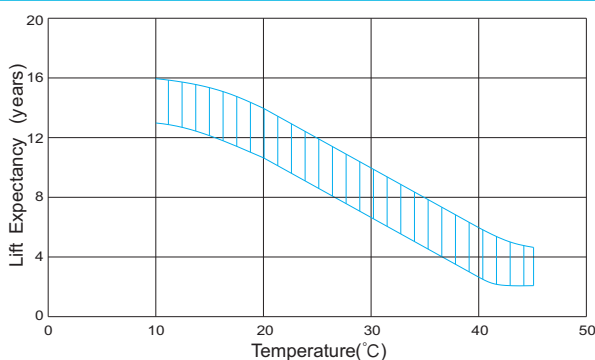
### Temperature Effects on Capacity



### Storage Characteristics



### Effect of Temperature on Long Term Life



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

