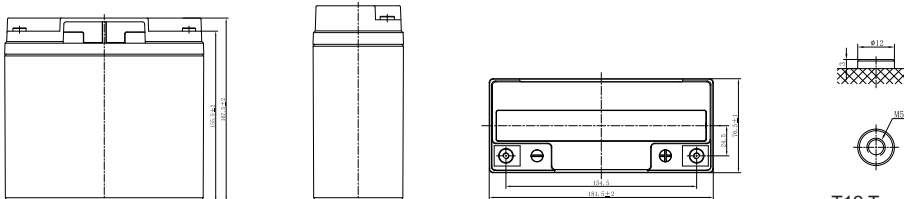


## Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	18Ah@20hr-rate to 1.75V per cell @25 °C
Weight	Approx. 6.00 Kg (Tolerance ±3.0%)
Internal Resistance	Approx. 14 mΩ
Terminal	T12/T12-I
Max. Discharge Current	270A (5 sec)
Design Life	5 years (floating charge)
Max. Charging Current	5.4A
Reference Capacity	C3 13.9AH C5 15.6AH C10 16.8AH C20 18.0AH
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: -5mV/°C/Cell
Operating Temperature Range	Discharge: -15°C~50°C Charge: -20°C~40°C Storage: -15°C~40°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 charge batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



## Dimensions



Length	181.5±2mm (7.15 inches)
Width	76.5±1mm (3.01 inches)
Height	167.5±2mm (6.59 inches)
Total Height	167.5±2mm (6.59 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

T12 Terminal

Unit: mm

### Constant Current Discharge Characteristics : A(25°C)

F.V/Time	10MIN	15MIN	20MIN	30MIN	45MIN	1H	2H	3H	4H	5H	6H	8H	10H	20H
1.85V/cell	40.1	30.9	25.1	18.3	13.2	10.8	6.19	4.46	3.56	3.03	2.59	2.04	1.67	0.880
1.80V/cell	42.5	32.4	26.2	18.8	13.6	11.1	6.31	4.55	3.61	3.08	2.64	2.07	1.68	0.890
1.75V/cell	44.2	33.5	26.9	19.3	13.9	11.3	6.42	4.62	3.66	3.11	2.66	2.10	1.70	0.900
1.70V/cell	46.0	34.7	27.6	19.8	14.1	11.5	6.52	4.68	3.71	3.16	2.70	2.12	1.72	0.909
1.65V/cell	47.3	35.5	28.3	20.2	14.4	11.7	6.59	4.73	3.74	3.19	2.72	2.13	1.73	0.918
1.60V/cell	49.3	36.7	29.1	20.7	14.8	12.0	6.72	4.82	3.82	3.23	2.76	2.17	1.76	0.927

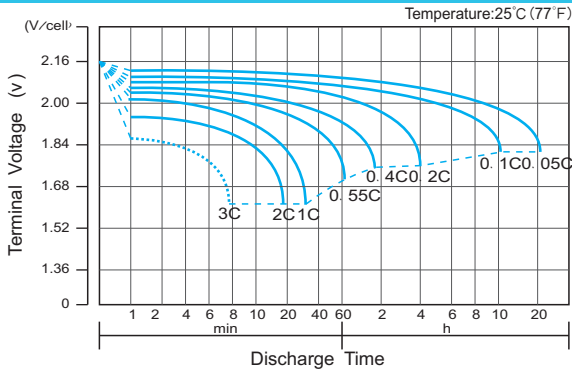
### Constant Power Discharge Characteristics : WPC(25°C)

F.V/Time	10MIN	15MIN	20MIN	30MIN	45MIN	1H	2H	3H	4H	5H	6H	8H	10H	20H
1.85V/cell	76.3	59.2	48.4	35.3	25.7	21.1	12.2	8.78	7.02	5.99	5.13	4.05	3.30	1.76
1.80V/cell	80.4	61.7	50.1	36.2	26.2	21.5	12.3	8.91	7.10	6.07	5.21	4.10	3.35	1.78
1.75V/cell	83.0	63.4	51.2	37.0	26.6	21.9	12.5	9.03	7.19	6.13	5.26	4.15	3.38	1.80
1.70V/cell	85.7	65.1	52.4	37.7	27.2	22.1	12.7	9.14	7.28	6.21	5.32	4.19	3.41	1.82
1.65V/cell	87.7	66.5	53.4	38.3	27.5	22.5	12.8	9.23	7.34	6.26	5.36	4.22	3.43	1.83
1.60V/cell	90.2	68.3	54.7	39.2	28.1	22.9	13.0	9.37	7.44	6.34	5.43	4.28	3.47	1.85

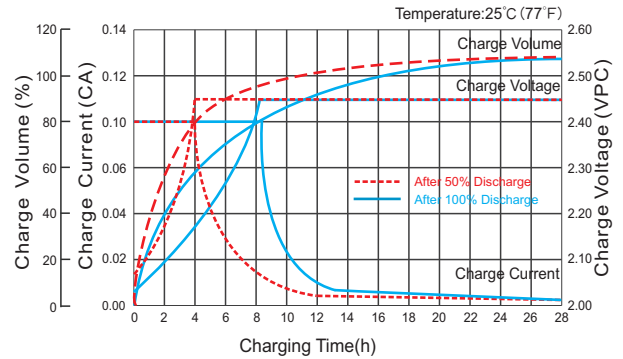
(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values. The battery must be fully charged before the capacity test. The C<sub>20</sub> should reach 95% after the first cycle and 100% after the third cycle.

## VALVE REGULATED LEAD ACID AGM BATTERY

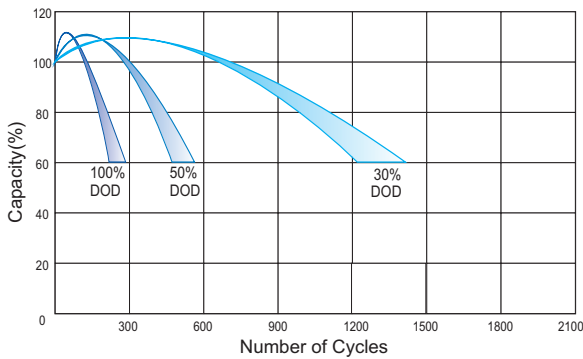
### Discharge Characteristics Curve



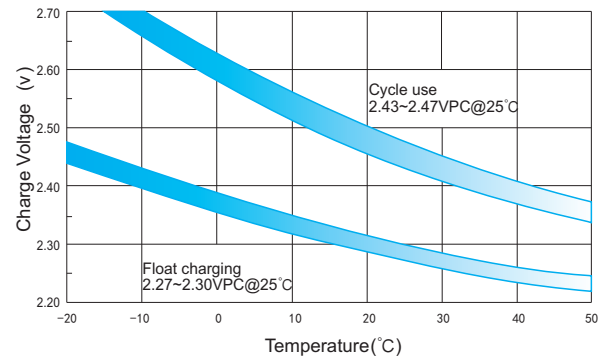
### Charge Characteristic Curve for Cycle Use (IU)



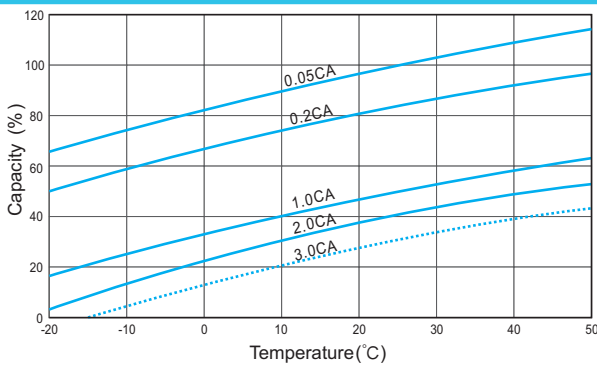
### Cycle Life in Relation to Depth of Discharge



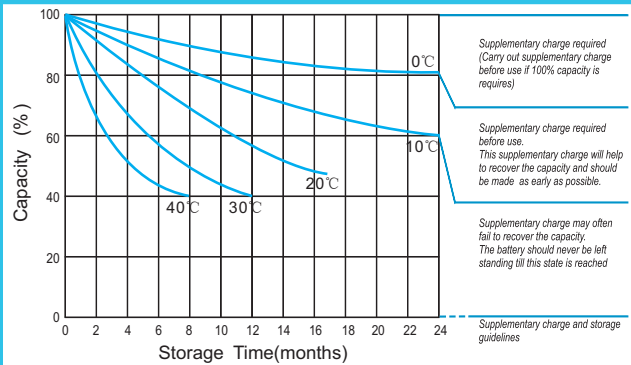
### Relationship Between Charging Voltage and Temperature



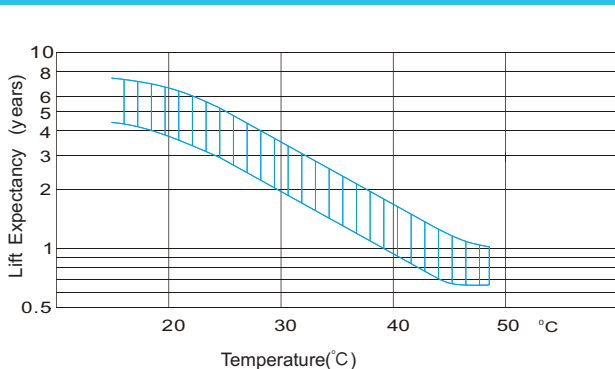
### Temperature Effects on Capacity



### Storage Characteristics



### Effect of Temperature on Long Term Life



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

