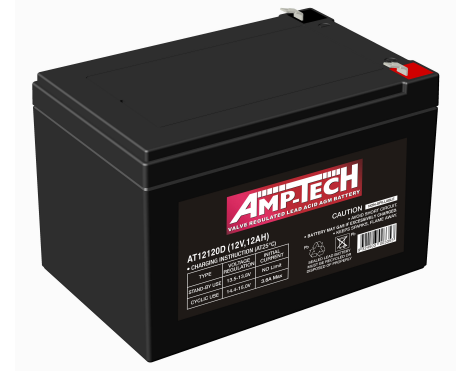
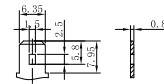
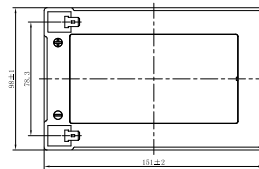
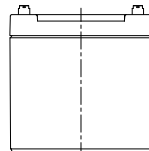
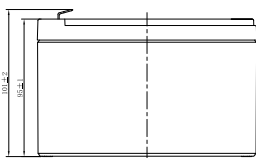


## Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	12Ah@20hr-rate to 1.75V per cell @25 °C
Weight	Approx. 4.05 Kg (Tolerance ±3.0%)
Internal Resistance	Approx. 14 mΩ
Terminal	T1/T2
Max. Discharge Current	180A (5 sec)
Design Life	5 years (floating charge)
Max. Charging Current	3.6 A
Reference Capacity	C3 9.09AH C5 10.1AH C10 11.0AH C20 12.0AH
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 charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



## Dimensions



T2 Terminal

Length	151±2mm (5.94 inches)	
Width	98±1mm (3.86 inches)	
Height	95±1mm (3.74 inches)	
Total Height	101±2mm (3.98 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	5MIN	10MIN	15MIN	20MIN	30MIN	45MIN	1H	1.5H	2H	3H	4H	5H	6H	8H	10H	20H
1.85V/cell	22.7	17.4	14.4	12.5	9.60	7.09	5.97	4.34	3.53	2.77	2.25	1.83	1.59	1.28	1.07	0.588
1.80V/cell	30.4	22.2	17.4	14.7	11.4	8.24	6.70	4.80	3.85	2.98	2.40	1.97	1.71	1.36	1.10	0.594
1.75V/cell	34.2	24.4	19.0	15.8	11.8	8.57	7.00	5.00	4.00	3.03	2.45	2.02	1.76	1.38	1.14	0.600
1.70V/cell	37.7	26.6	20.3	16.6	12.3	8.91	7.22	5.14	4.10	3.11	2.52	2.07	1.79	1.40	1.15	0.611
1.67V/cell	41.6	28.7	21.6	17.7	13.0	9.08	7.39	5.24	4.16	3.25	2.61	2.13	1.82	1.43	1.18	0.619
1.60V/cell	45.8	31.1	23.1	18.8	13.7	9.50	7.46	5.38	4.34	3.34	2.69	2.20	1.87	1.44	1.20	0.623

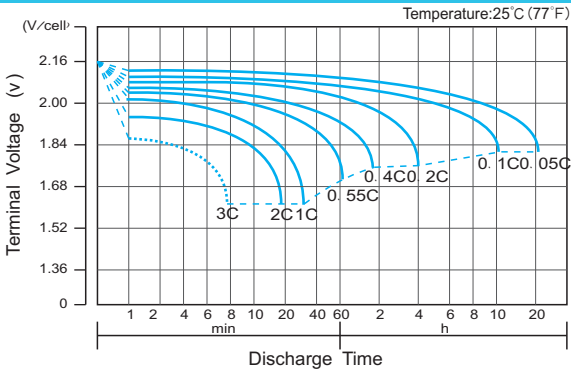
### Constant Power Discharge Characteristics : WPC(25°C)

F.V/Time	5MIN	10MIN	15MIN	20MIN	30MIN	45MIN	1H	1.5H	2H	3H	4H	5H	6H	8H	10H	20H
1.85V/cell	41.3	32.1	26.8	23.4	18.3	13.7	11.5	8.41	6.87	5.39	4.40	3.60	3.13	2.53	2.12	1.16
1.80V/cell	54.9	40.6	32.0	27.3	21.3	15.7	12.8	9.23	7.44	5.76	4.67	3.84	3.34	2.68	2.18	1.17
1.75V/cell	60.6	43.8	34.5	29.1	22.0	16.1	13.4	9.59	7.69	5.85	4.75	3.93	3.42	2.72	2.24	1.19
1.70V/cell	64.9	46.7	36.3	30.4	22.7	16.7	13.7	9.81	7.86	6.00	4.87	4.02	3.49	2.75	2.28	1.21
1.67V/cell	70.5	49.9	38.4	32.0	23.8	17.0	14.0	9.95	7.93	6.23	5.02	4.12	3.56	2.79	2.33	1.22
1.60V/cell	76.0	53.0	40.3	33.7	25.0	17.7	14.0	10.2	8.23	6.39	5.16	4.23	3.62	2.81	2.35	1.23

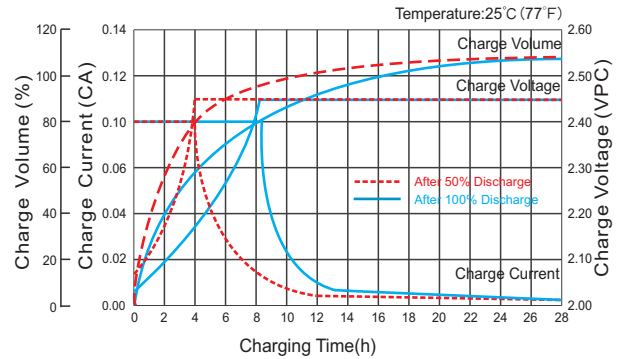
(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values. The battery must be fully charged before the capacity test. The C<sub>20</sub> should reach 95% after the first cycle and 100% after the third cycle.

## VALVE REGULATED LEAD ACID AGM BATTERY

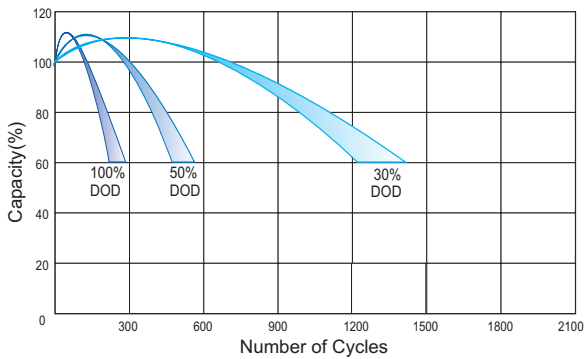
### Discharge Characteristics Curve



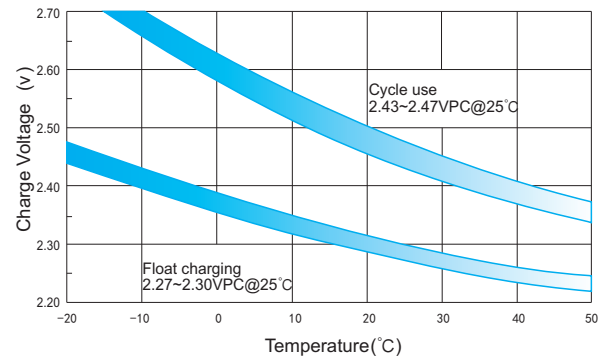
### Charge Characteristic Curve for Cycle Use (IU)



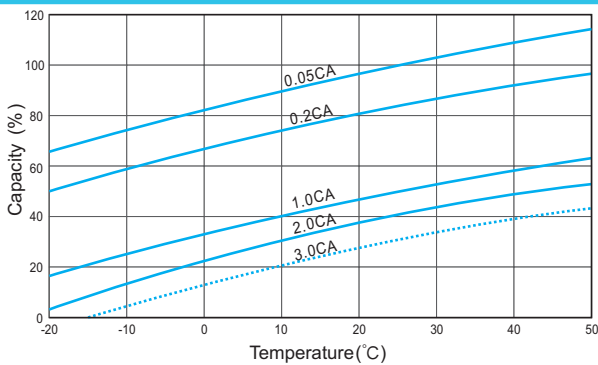
### Cycle Life in Relation to Depth of Discharge



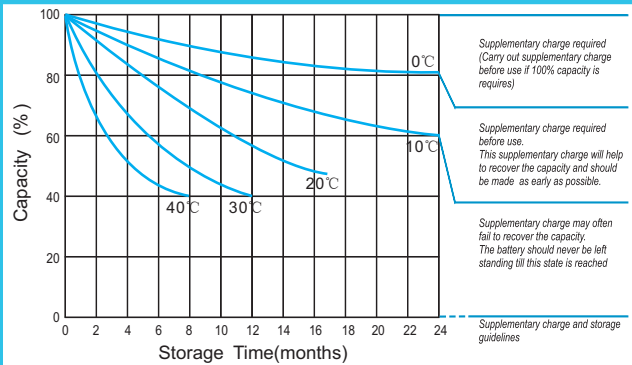
### Relationship Between Charging Voltage and Temperature



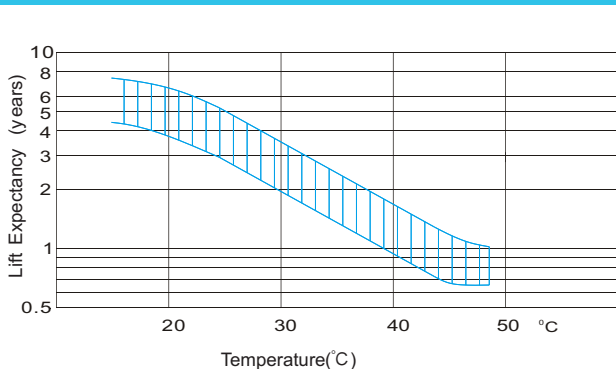
### Temperature Effects on Capacity



### Storage Characteristics



### Effect of Temperature on Long Term Life



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

