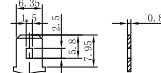
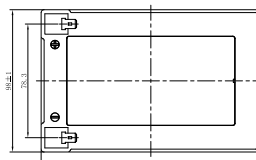
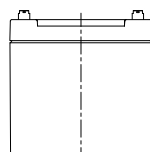
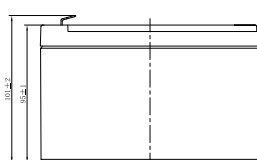


Specification

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)

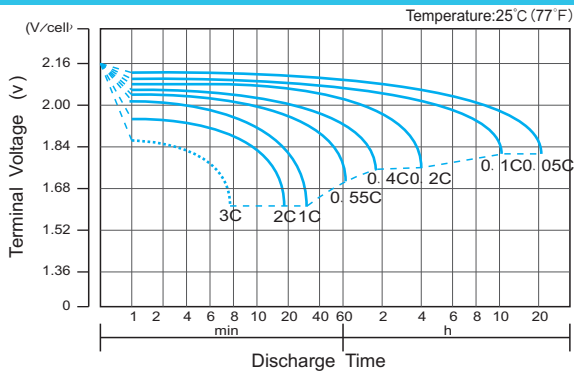
F. V/Time	5MIN	10MIN	15MIN	20MIN	30MIN	45MIN	1H	1.5H	2H	3H	4H	5H	6H	8H	10H	20H
1.85V/cell	22.7	17.4	14.4	12.5	9.60	7.09	5.97	4.34	3.53	2.77	2.25	1.83	1.59	1.28	1.07	0.588
1.80V/cell	30.4	22.2	17.4	14.7	11.4	8.24	6.70	4.80	3.85	2.98	2.40	1.97	1.71	1.36	1.10	0.594
1.75V/cell	34.2	24.4	19.0	15.8	11.8	8.57	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)

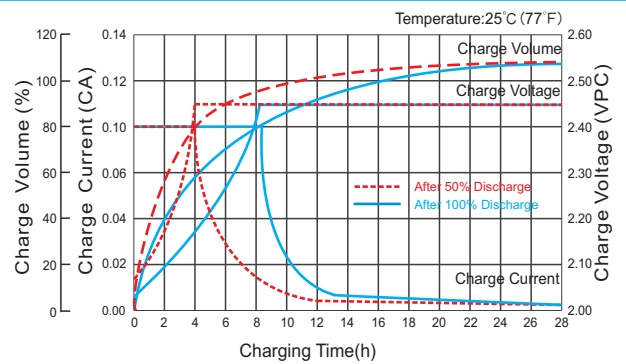
F. V/Time	5MIN	10MIN	15MIN	20MIN	30MIN	45MIN	1H	1.5H	2H	3H	4H	5H	6H	8H	10H	20H
1.85V/cell	41.3	32.1	26.8	23.4	18.3	13.7	11.5	8.41	6.87	5.39	4.40	3.60	3.13	2.53	2.12	1.16
1.80V/cell	54.9	40.6	32.0	27.3	21.3	15.7	12.8	9.23	7.44	5.76	4.67	3.84	3.34	2.68	2.18	1.17
1.75V/cell	60.6	43.8	34.5	29.1	22.0	16.1	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 C₂₀ should reach 95% after the first cycle and 100% after the third cycle.

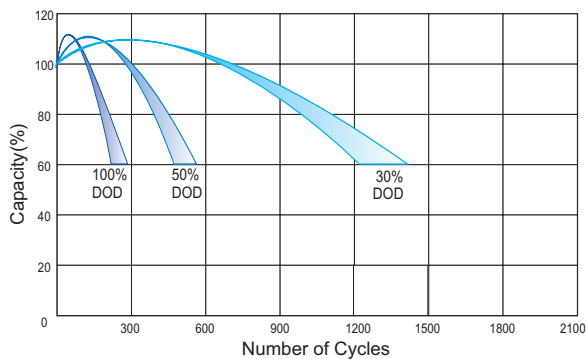
Discharge Characteristics Curve



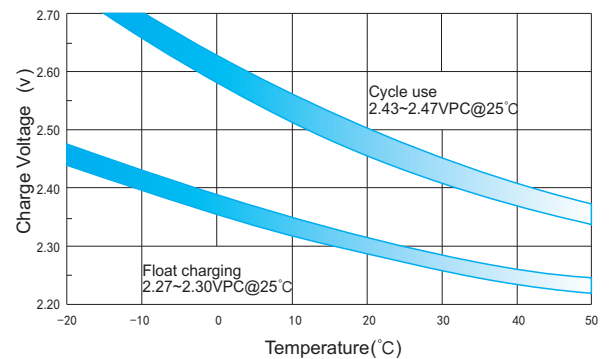
Charge Characteristic Curve for Cycle Use(IU)



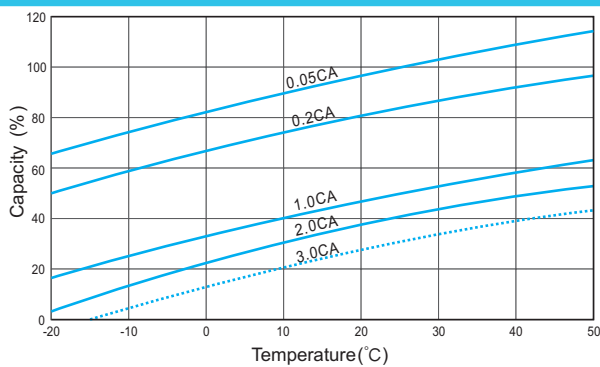
Cycle Life in Relation to Depth of Discharge



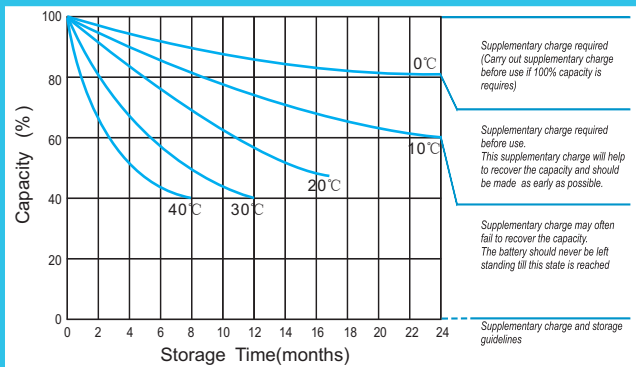
Relationship Between Charging Voltage and Temperature



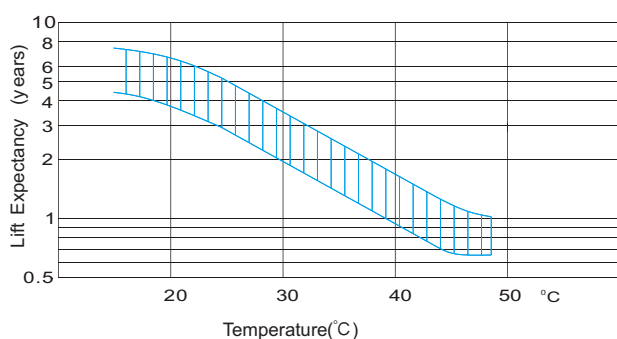
Temperature Effects on Capacity



Storage Characteristics



Effect of Temperature on Long Term Life



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

