

Specification

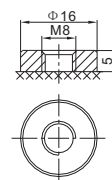
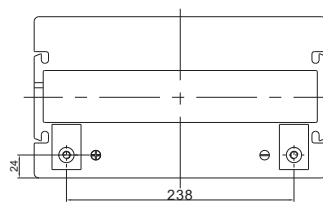
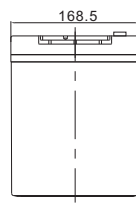
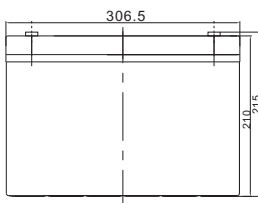
Cells Per Unit	6
Voltage Per Unit	12
Capacity	105Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 27.0 Kg (Tolerance ±3.0%)
Internal Resistance	Approx. 6.0 mΩ
Terminal	F15(M6)/F12(M8)
Max. Discharge Current	1000A (5 sec)
Design Life	12 years (floating charge)
Max. Charging Current	30.0 A
Reference Capacity	C3 80.8AH C5 90.4AH C10 100.0AH C20 105.0AH
Float Charging Voltage	13.6 V~13.8 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.6 V~14.8 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 batteries can be stored for up to 6 months at 25°C and 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.



DC (Deep Cycle) series batteries provide superior high integrity and reliability. It is specially designed for frequent cyclic charge and discharging. By using strong grids, thick plate and specially active material are designed for repeated deep-discharge applications. The DC series batteries offer 30% more cyclic life than the standby series. It is suitable for solar and wind renewable energy storage, mobility and medical equipment and cable TV etc.



Dimensions



F12 Terminal

Length	306.5±2mm (12.1 inches)
Width	168.5±2mm (6.63 inches)
Height	210±2mm (8.27 inches)
Total Height	215±2mm (8.46 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)

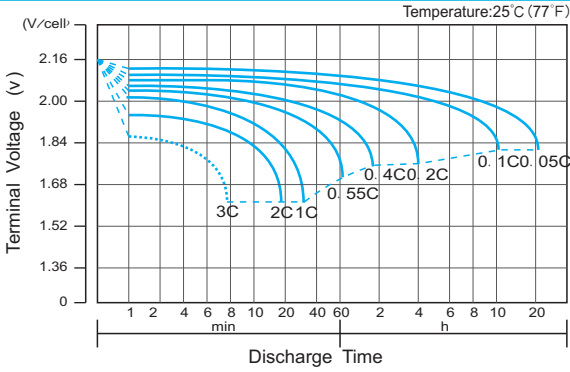
F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	234.9	189.9	113.2	63.77	37.98	29.58	23.21	19.74	12.66	10.50	5.442
1.65V	216.4	177.6	107.2	61.60	36.71	28.67	22.51	19.12	12.56	10.40	5.413
1.70V	200.6	167.0	101.7	59.63	35.73	27.46	21.82	18.60	12.36	10.20	5.345
1.75V	184.0	156.4	97.66	57.75	34.36	26.75	21.22	18.08	12.16	10.10	5.250
1.80V	167.5	143.3	94.06	55.18	33.18	26.25	20.73	17.85	11.96	10.00	5.199
1.85V	131.0	118.5	79.76	49.26	30.34	24.43	19.44	16.43	11.26	9.400	5.151

Constant Power Discharge Characteristics : WPC(25°C)

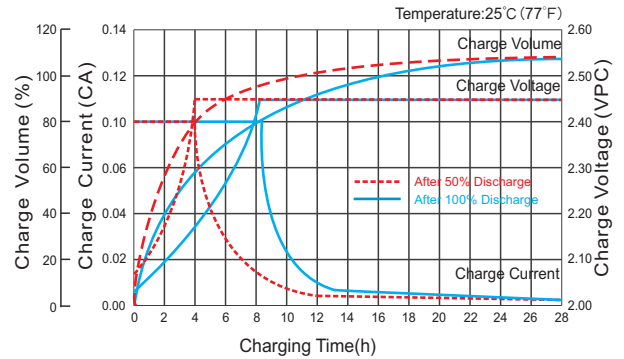
F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	400.1	331.3	205.7	119.7	71.80	56.17	44.72	37.36	24.67	20.59	10.86
1.65V	385.2	322.1	200.9	117.7	69.87	54.77	43.63	36.35	24.48	20.39	10.77
1.70V	359.5	304.9	191.2	114.2	68.12	52.67	42.25	35.44	24.18	20.00	10.67
1.75V	334.6	287.8	184.5	111.1	65.70	51.38	41.25	34.64	23.78	19.80	10.48
1.80V	308.2	266.0	178.5	106.5	64.21	51.09	40.46	34.17	23.39	19.60	10.38
1.85V	244.5	223.5	153.1	95.66	59.12	47.65	38.08	31.61	22.11	18.51	10.28

(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.

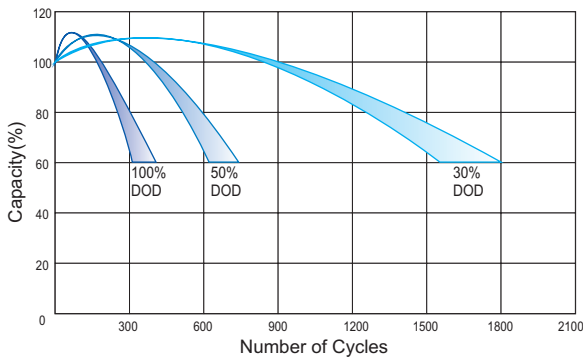
Discharge Characteristics Curve



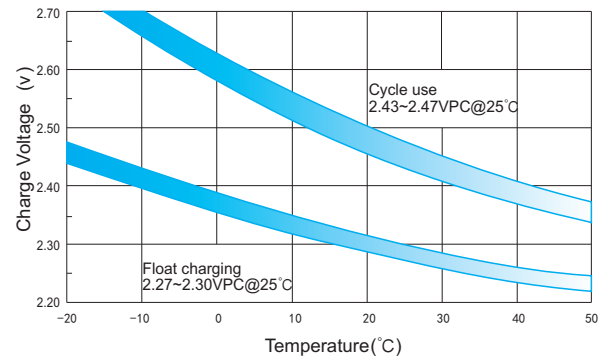
Charge Characteristic Curve for Cycle Use (IU)



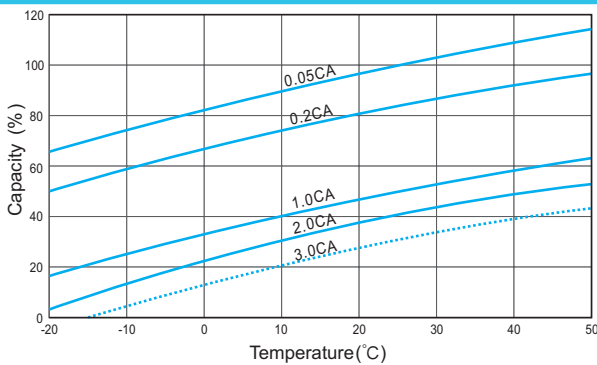
Cycle Life in Relation to Depth of Discharge



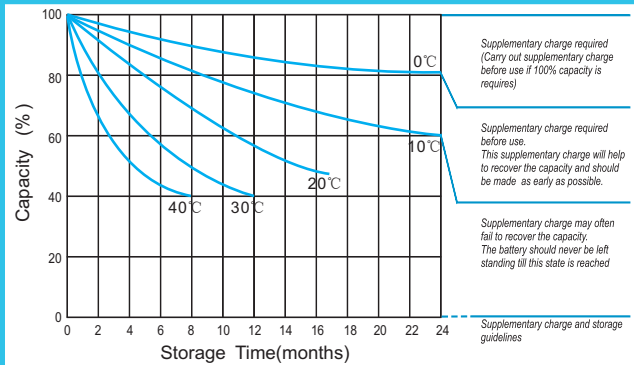
Relationship Between Charging Voltage and Temperature



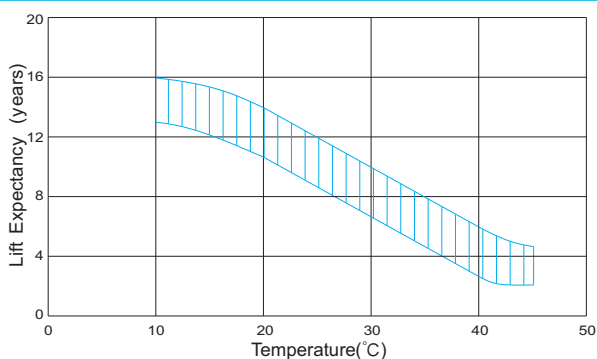
Temperature Effects on Capacity



Storage Characteristics



Effect of Temperature on Long Term Life



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

