

Specification

AMP-TECH
VALVE REGULATED LEAD ACID BATTERY

AT645 (6V/4.5AH)

- CHARGING INSTRUCTION (AT25°C)

TYPE	VOLTAGE REGULATION	INITIAL CURRENT
STAND-BY USE	6.75-6.90V	No Limit
CYCLOC USE	7.20-7.50V	1.35A Max.

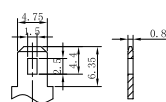
CAUTION RECHARGEABLE

- AVOID SHORT CIRCUIT
- BATTERY MAY OVER HE EXCESSIVELY CHARGED.
- KEEP FROM FLAME AREA.

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WASH TO LEAD BATTERY MUST BE IDENTIFIED BY DISPOSE OF PROPERLY

Dimensions



T1 Terminal

Length	70±2mm (2.76 inches)
Width	47±2mm (1.85 inches)
Height	100±2mm (3.94 inches)
Total Height	106±2mm (4.17 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

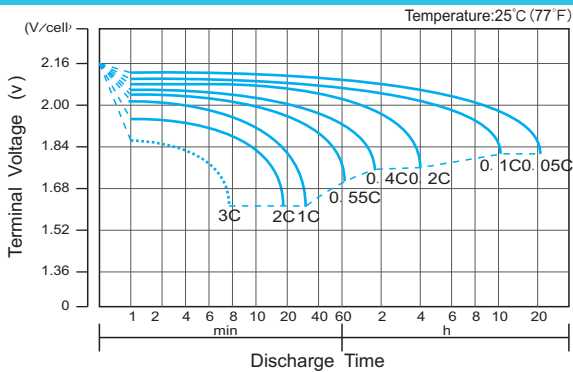
Unit: mm

F.V/Time	5MIN	10MIN	15MIN	20MIN	30MIN	45MIN	1HR	1.5HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR	20HR
1.85V/cell	11.3	8.26	6.55	5.35	4.07	2.99	2.44	1.84	1.53	1.09	0.876	0.744	0.637	0.500	0.409	0.220
1.80V/cell	12.2	8.64	6.81	5.51	4.17	3.04	2.48	1.87	1.56	1.11	0.888	0.755	0.645	0.507	0.413	0.222
1.75V/cell	13.1	9.10	7.06	5.68	4.27	3.11	2.53	1.90	1.58	1.13	0.900	0.765	0.653	0.513	0.419	0.225
1.70V/cell	14.1	9.50	7.31	5.84	4.37	3.16	2.57	1.94	1.61	1.14	0.910	0.775	0.662	0.519	0.424	0.227
1.67V/cell	14.8	9.80	7.46	5.95	4.43	3.20	2.60	1.95	1.62	1.15	0.920	0.780	0.667	0.523	0.427	0.229
1.60V/cell	16.0	10.4	7.80	6.17	4.56	3.29	2.66	2.00	1.66	1.17	0.940	0.795	0.679	0.532	0.433	0.231

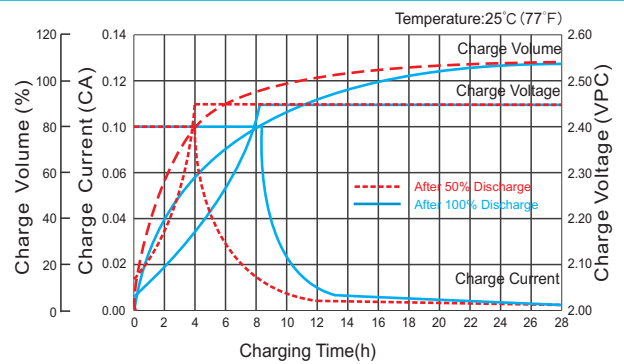
F.V/Time	5MIN	10MIN	15MIN	20MIN	30MIN	45MIN	1HR	1.5HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR	20HR
1.85V/cell	21.3	15.8	12.6	10.3	7.86	5.79	4.74	3.59	3.01	2.15	1.73	1.47	1.26	0.990	0.812	0.489
1.80V/cell	23.0	16.5	13.1	10.5	8.02	5.89	4.82	3.65	3.04	2.18	1.75	1.49	1.28	1.01	0.821	0.494
1.75V/cell	24.7	17.2	13.4	10.8	8.18	5.98	4.89	3.69	3.09	2.21	1.76	1.50	1.29	1.02	0.831	0.499
1.70V/cell	26.4	17.9	13.9	11.1	8.33	6.07	4.96	3.74	3.12	2.23	1.79	1.52	1.31	1.03	0.840	0.504
1.67V/cell	27.4	18.4	14.0	11.3	8.46	6.13	5.00	3.77	3.15	2.25	1.80	1.53	1.31	1.04	0.845	0.507
1.60V/cell	29.5	19.3	14.6	11.6	8.64	6.26	5.09	3.83	3.20	2.29	1.83	1.56	1.33	1.05	0.858	0.515

(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.

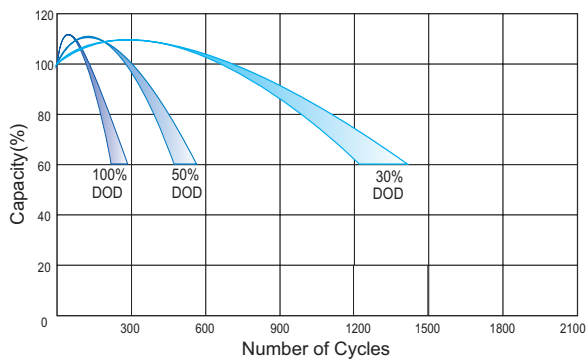
Discharge Characteristics Curve



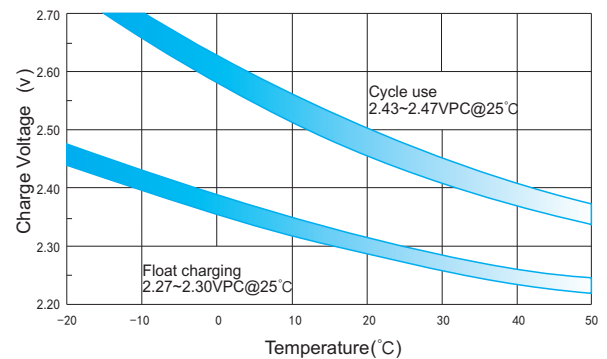
Charge Characteristic Curve for Cycle Use(IU)



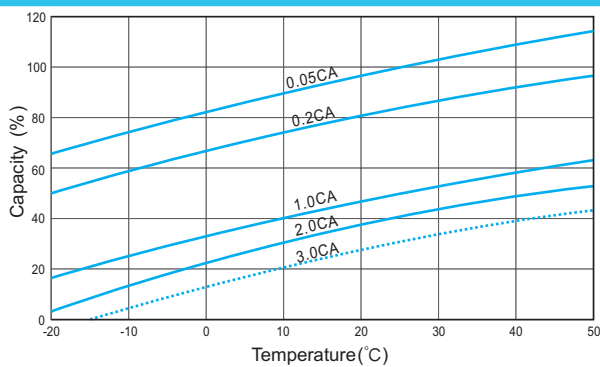
Cycle Life in Relation to Depth of Discharge



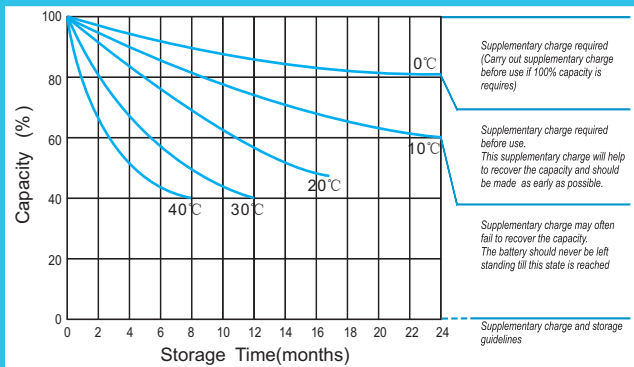
Relationship Between Charging Voltage and Temperature



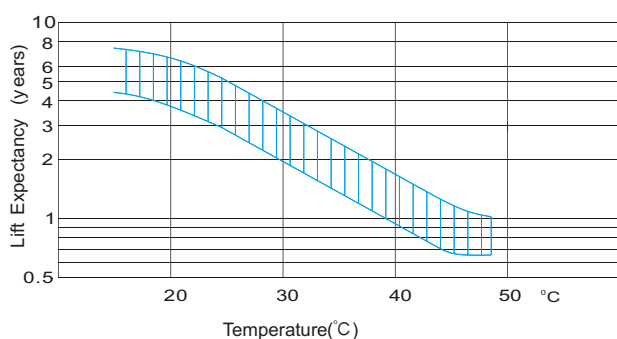
Temperature Effects on Capacity



Storage Characteristics



Effect of Temperature on Long Term Life



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

