

Physical Specifications

Part Number: AGM TED2100
 Length: 171 ± 2 mm (6.73 inches)
 Width: 72 ± 2 mm (2.83 inches)
 Container height: 202 ± 2 mm (7.95 inches)
 Weight: ~ 5.5kg (14.33 lbs)
 Height: 207 ± 2 mm (8.15 inches)

Standard case material is flame retardant to (UL94) HBO.
 The TED Batteries range provide an extremely reliable and versatile valve regulated lead acid battery. Their unique construction and sealing techniques ensures that no electrolyte leakage can occur, and provides safe and effective operation in any orientation, and meets all requirements of the International Air Transport Association Dangerous Goods Regulations to allow transportation by air.



Specifications

Terminal Type: Standard M8/F10 or any suitable terminal (at customer request)

Design Floating Life 20°C (68°F): 11 Years

Maxim Discharge Current: 500A/5sec.

Internal Resistance: Approximative 1mΩ

Cycle Use: Initial Charging Current Less Than 20.0A • Voltage 2.43÷2.47 at 25°C (77°F) • Temperature Coefficient -30mV/°C
 Standby Use: No Limit on Initial Charging Current Voltage 2.27÷2.3V at 25°C (77°F) • Temperature Coefficient -20mV/°C
 Capacity Affected by Temperature 40°C (104°F) 103% 25°C (77°F) 100% 0°C (32°F) 86%

Self Discharge TED Batteries may be stored for up to 6 months at 25°C (77°F) and than refresh charge is required. For higher temperatures the time interval will be shorter.

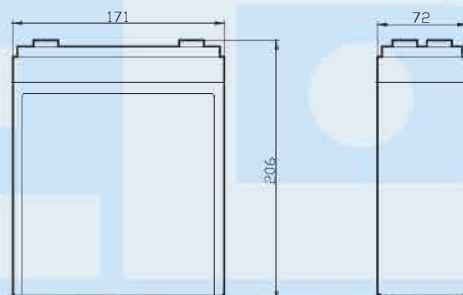
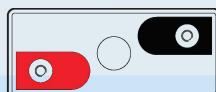
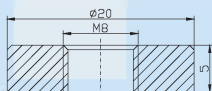
Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/Cell	1.75V	1.70V	1.60V
Discharge Current A	≤ 0.2C	0.2C + 1.0C	≥ 1.0C

Discharge Characteristics

Operating Temperature Range	Charge: 0°C÷40°C (5°F÷104°F)
Storage:	-15°C÷40°C (5°F÷104°F)
Nominal:	25°C±3°C (77°F±5°F)
Discharge:	-15°C÷50°C (5°F÷122°F)

Terminal M8 / F10



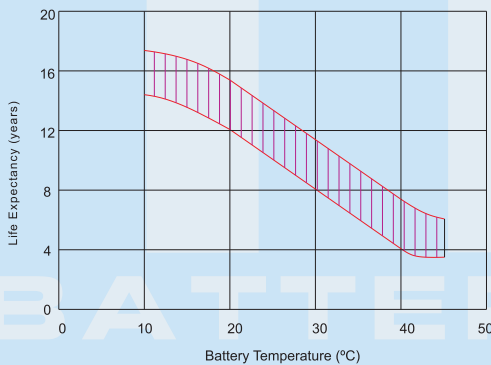
Constant Current Discharge (Amperes) at 25°C

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR
1.60V	135.8	100.1	64.44	38.30	28.53	22.74	19.15	16.09	12.98	10.85
1.65V	129.1	96.14	61.65	36.91	27.33	21.95	18.35	15.70	12.40	10.67
1.70V	120.4	90.63	60.45	36.31	26.73	21.75	18.15	15.31	12.21	10.47
1.75V	106.9	81.56	55.66	34.31	25.34	20.55	17.36	14.54	11.82	10.28
1.80V	92.0	74.29	52.47	32.72	24.34	20.35	16.76	14.34	11.63	10.08
1.85V	77.8	66.88	48.48	30.92	23.14	18.75	15.96	13.57	11.05	9.40

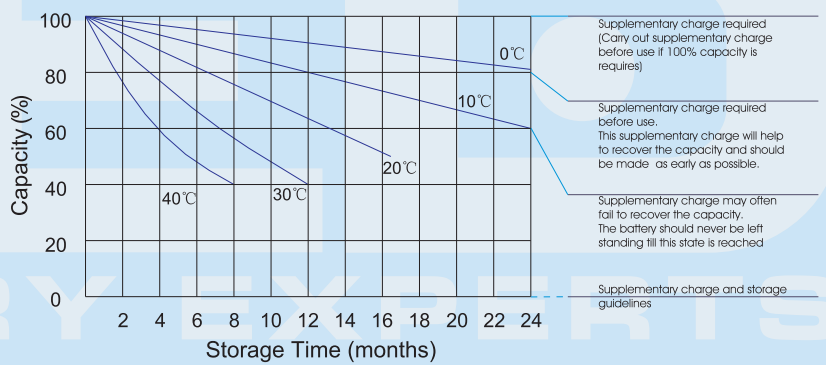
Constant Power Discharge Characteristics (Watts) at 25°C

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR
1.60V	237.7	182.5	118.0	70.96	53.17	42.74	36.19	31.04	24.71	20.95
1.65V	231.5	181.5	117.6	69.93	52.12	42.10	35.79	30.64	24.50	20.76
1.70V	218.7	171.8	115.4	68.91	51.33	41.94	35.47	29.93	24.12	20.43
1.75V	194.8	154.8	106.3	65.23	49.49	39.83	33.98	28.45	23.36	20.11
1.80V	168.6	141.2	100.27	62.30	47.44	39.65	32.88	28.12	22.99	19.39
1.85V	143.8	127.3	92.68	58.97	45.19	36.73	31.37	26.64	21.84	18.67

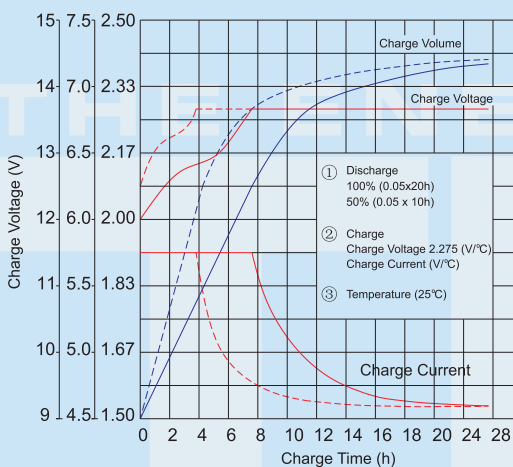
Effect of temperature on long term float life



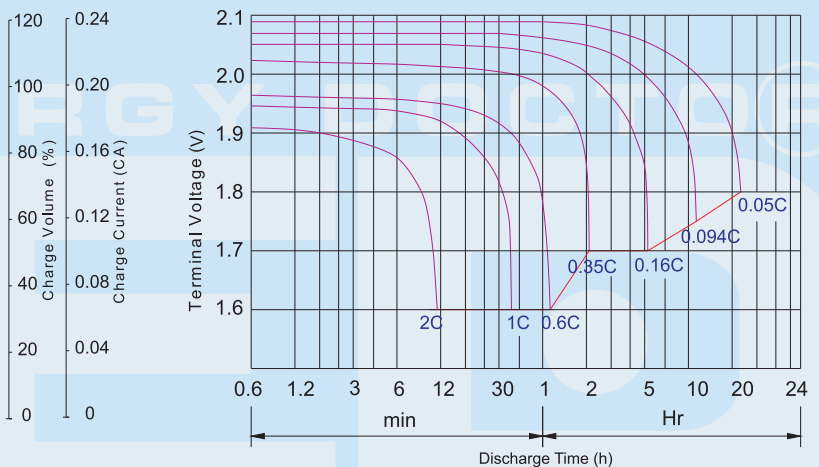
Storage characteristic



Charge characteristic Curve for standby use



Discharge characteristic Curve



Maintenance & Cautions:

Every month, recommend inspection every battery voltage * Every three months, recommend equalization charge for one time * Equalization charge method: Discharge: 100% rate capacity Charge: Max. current 0.3CA, constant voltage 2.4-2.45V/Cell charge 24h * Effect of temperature on float charge voltage: -3mV/°C/Cell * Length of service life will be directly affected by the number of discharge cycles, depth of discharge, ambient temperature and charging voltage