

Physical Specifications

Part Number: GEL TED1236
 Length: 190 ± 2 mm (7.68 inches)
 Width: 130 ± 2 mm (5.12 inches)
 Container height: 155 ± 2 mm (6.10 inches)
 Weight: 10.3kg (22.70 lbs)
 Height: 168 ± 2 mm (6.61 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 M6/F6/T6/I2 or any suitable terminal (at costumer request)

Design Floating Life 20°C (68°F): 13 Years

Maxim Discharge Current: 530A/5sec.

Internal Resistance: Approximative 8.9mΩ

Cycle Use: Initial Charging Current Less Than 10.0A • Voltage 14.4÷14.8 at 25°C (77°F) • Temperature Coefficient -30mV/°C
 Standby Use: No Limit on Initial Charging Current Voltage 13.5÷13.8V 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.

Rated Capacity

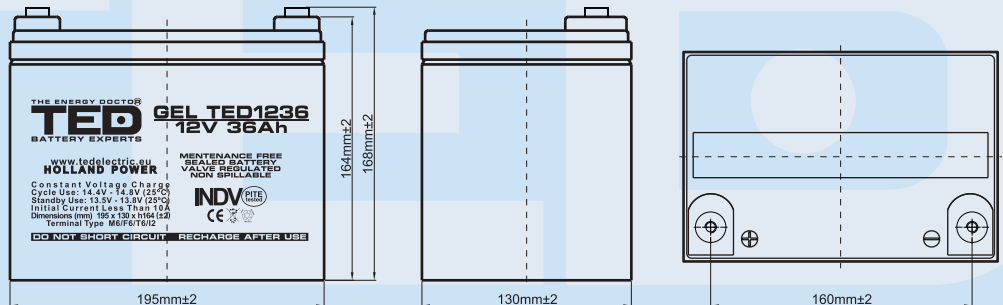
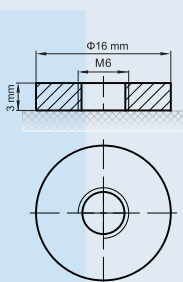
36.2Ah/3.61A	20hr	1.80V/cell 25°C/77°F
35.8Ah/3.30A	10hr	1.80V/cell 25°C/77°F
32.7Ah/6.50A	5hr	1.75V/cell 25°C/77°F
28.6Ah/8.70A	3hr	1.75V/cell 25°C/77°F
22.4Ah/22.4A	1hr	1.60V/cell 25°C/77°F

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 Type:

Standard M6 (F6/T6/I2)



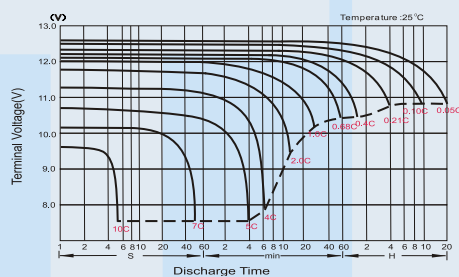
Constant Current Discharge (Amperes) at 25°C

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	115.8	81.06	60.43	34.97	20.52	12.30	9.03	7.33	6.19	4.14	3.52	1.80
1.65V	111.6	78.65	58.85	34.20	20.14	12.12	8.91	7.24	6.12	4.09	3.48	1.79
1.70V	106.2	75.48	56.77	33.19	19.64	11.88	8.75	7.12	6.02	4.04	3.44	1.77
1.75V	99.17	71.38	54.06	31.86	18.98	11.56	8.54	6.96	5.90	3.96	3.38	1.74
1.80V	90.36	66.14	50.57	30.14	18.11	11.14	8.26	6.75	5.73	3.87	3.30	1.71
1.85V	79.52	59.59	46.17	27.94	17.00	10.60	7.89	6.47	5.51	3.74	3.20	1.67

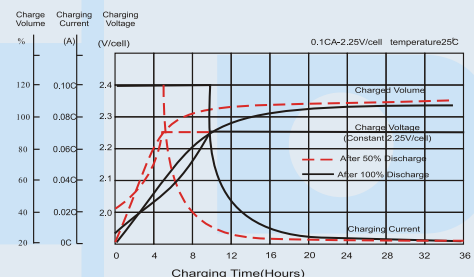
Constant Power Discharge (Watts) at 25°C

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	199.3	139.9	107.2	64.47	38.95	23.65	17.50	14.29	12.11	8.20	7.02	3.61
1.65V	197.2	139.3	106.6	64.00	38.63	23.48	17.38	14.19	12.03	8.14	6.97	3.58
1.70V	189.7	135.2	103.7	62.45	37.80	23.08	17.11	13.98	11.87	8.04	6.88	3.55
1.75V	180.4	130.1	100.2	60.57	36.71	22.57	16.76	13.72	11.66	7.91	6.77	3.50
1.80V	167.2	122.7	95.09	57.87	35.20	21.87	16.28	13.35	11.37	7.73	6.62	3.44
1.85V	149.8	112.5	88.05	54.18	33.27	20.92	15.63	12.84	10.97	7.49	6.42	3.35

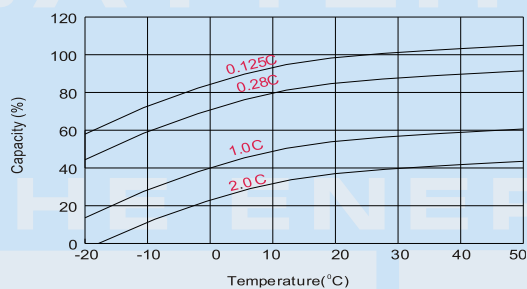
Discharge Characteristics



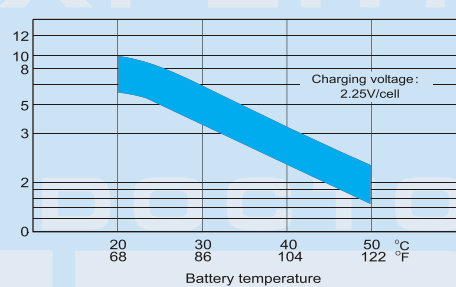
Float Charging Characteristics



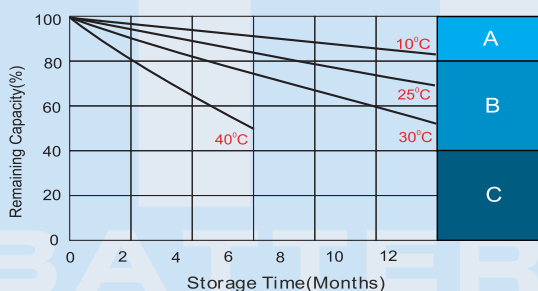
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Self Discharge Characteristics



A

No supplementary required
(Carryout supplementary charge before use if 100% capacity is required.)

B

Supplementary charge required before use. Optional charging way as below:
 1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.
 2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.
 3. Charged for 8 ~ 10 hours at limited current 0.05 CA.

C

Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.