

Physical Specifications

Part Number: GEL TED1293
 Length: 305 ± 3 mm (12 inches)
 Width: 167 ± 3 mm (6.57 inches)
 Container height: 208 ± 3 mm (8.19 inches)
 Weight: ~ 28 kg (61.73 lbs)
 Height: 212 ± 3 mm (8.35 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): 12 Years

Maxim Discharge Current: 838A/5sec.

Internal Resistance: Approximative 4.9mΩ

Cycle Use: Initial Charging Current Less Than 27.0A • 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

93.0Ah/9.29A	20hr	1.80V/cell	25°C/77°F
90.37Ah/11.3A	10hr	1.80V/cell	25°C/77°F
81.09Ah/16.23A	5hr	1.75V/cell	25°C/77°F
71.57Ah/23.79A	3hr	1.75V/cell	25°C/77°F
62.72Ah/62.72A	1hr	1.60V/cell	25°C/77°F

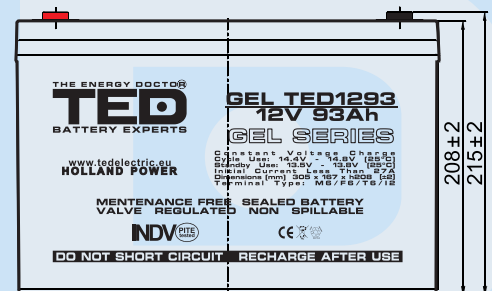
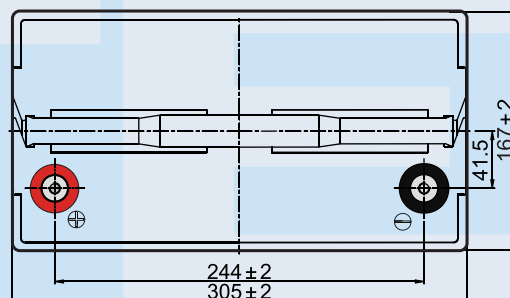
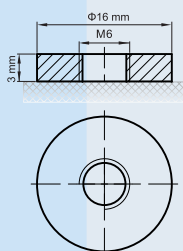
Discharge Characteristics

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)

GEL SERIES

Terminal Type:

Standard M6 (F6/T6/I2)



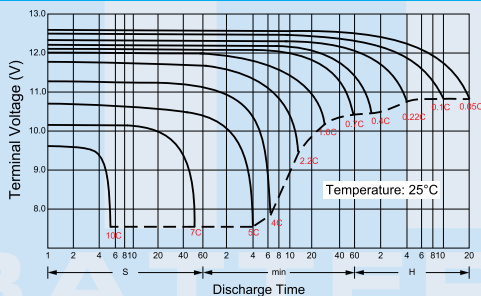
Constant Current Discharge (Amperes) at 25°C

F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	361	250	191	116	69.2	51.0	41.1	28.3	17.9	11.9	10.0	5.18
1.67V	319	233	182	114	67.8	49.9	40.2	28.0	17.7	11.8	9.79	5.15
1.70V	298	223	177	112	67.0	49.5	39.9	27.6	17.6	11.7	9.72	5.13
1.75V	264	206	169	107	65.1	48.0	38.7	26.9	17.4	11.6	9.59	5.07
1.80V	240	186	156	101	62.7	46.1	37.0	26.4	17.0	11.4	9.50	4.98
1.85V	198	166	136	92.4	58.5	43.1	34.7	25.0	16.3	11.0	9.05	4.79

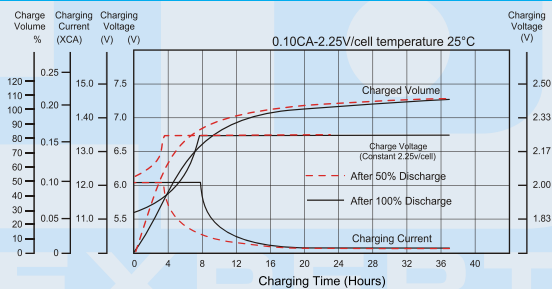
Constant Power Discharge (Watts) at 25°C

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	3383	2525	2032	1258	768	567	457	324	209	140	117	60.7
1.67V	3128	2400	1972	1244	757	559	451	321	207	139	116	60.0
1.70V	3021	2330	1950	1232	755	556	448	318	206	138	115	59.7
1.75V	2833	2186	1829	1193	739	543	437	310	204	136	114	59.4
1.80V	2496	2029	1675	1137	713	522	419	304	198	134	113	58.5
1.85V	2124	1804	1476	1056	672	495	398	289	189	129	108	56.8

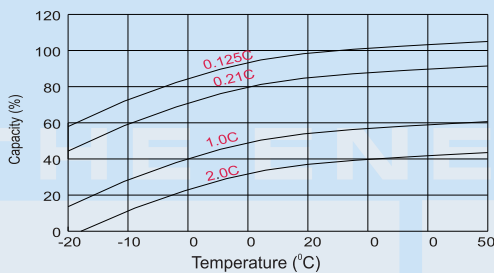
Discharge Characteristics



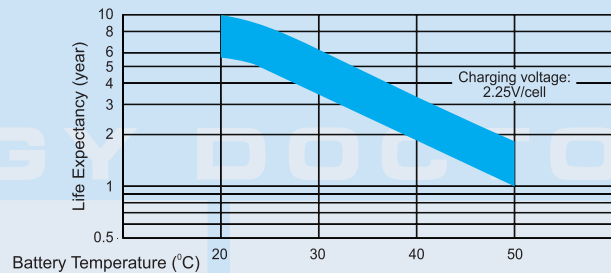
Float Charging Characteristics



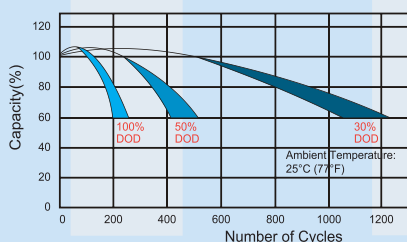
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life

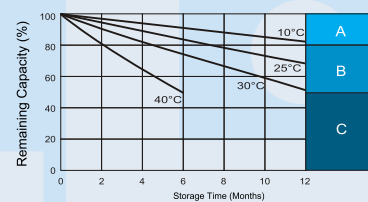


Cycle Life in Relation to Depth of Discharge



Testing condition
 Discharging current 0.17C (FV 1.7V/cell);
 Charging current 0.25C max, voltage 2.45V/cell;
 Charging volume: 125% of discharged capacity.

Self Discharge Characteristics



- A** No supplementary charge required.
(Carry out supplementary charge before use if 100% capacity is required.)
- B** Supplementary charge required before use. Optional charging may be 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 6-10 hours at limited current 0.25CA.
- C** Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.