

### Physical Specifications

Part Number: GEL DEEP-CYCLE TED1282  
 Length: 259 ± 2 mm (10.2 inches)  
 Width: 168 ± 2 mm (6.61 inches)  
 Container height: 211 ± 2 mm (8.3 inches)  
 Weight: ~ 24kg (52.91 lbs)  
 Height: 213 ± 2 mm (8.4 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 customer request)

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

Maxim Discharge Current: 950A/5sec.

Internal Resistance: Approximative 5.3mΩ

Cycle Use: Initial Charging Current Less Than 20.0A • 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

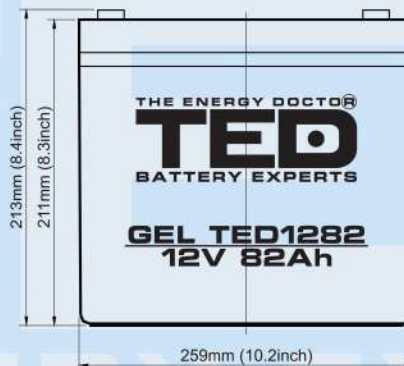
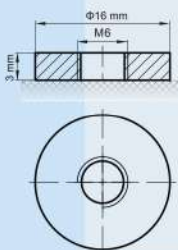
83.0Ah/4.0A	20hr	1.80V/cell 25°C/77°F
81.3Ah/7.9A	10hr	1.80V/cell 25°C/77°F
68.2Ah/13.4A	5hr	1.75V/cell 25°C/77°F
61.9Ah/20.3A	3hr	1.75V/cell 25°C/77°F
48.3Ah/48.3A	1hr	1.60V/cell 25°C/77°F

### 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)



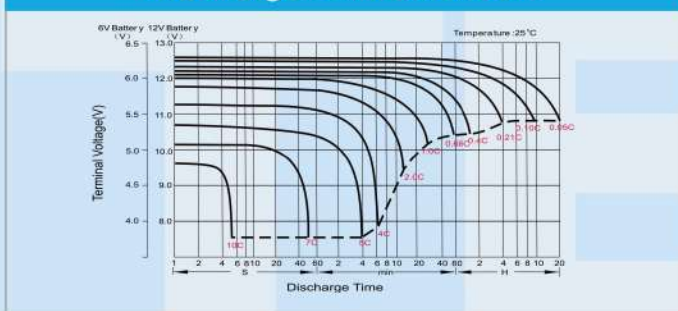
### Constant Current Discharge (Amperes) at 25°C

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	319	199	150	91.3	54.0	23.7	14.5	7.89	4.26
1.67V	299	188	144	87.4	53.3	22.8	14.2	7.82	4.12
1.70V	274	182	141	79.4	51.7	21.3	13.9	7.78	4.05
1.75V	269	176	136	75.4	49.2	20.6	13.6	7.76	3.94
1.80V	241	168	124	69.9	46.1	19.8	12.8	7.60	3.84
1.85V	212	160	111	64.3	43.0	19.1	12.0	7.50	3.77

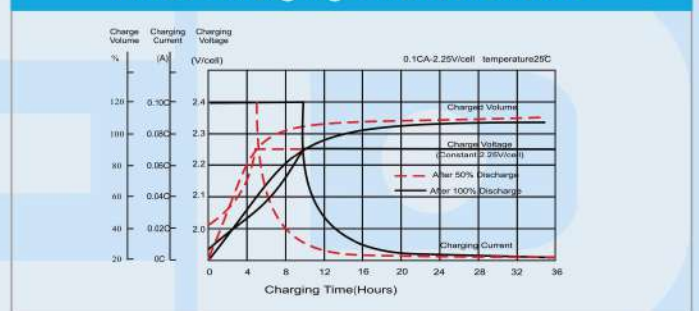
### Constant Power Discharge (Watts) at 25°C

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	560	358	273	164	97.5	42.1	24.5	16.0	8.40
1.67V	540	349	270	161	96.9	40.7	24.4	15.9	8.10
1.70V	509	346	268	151	95.1	38.9	24.1	15.8	8.00
1.75V	512	345	265	146	93.4	38.0	23.9	15.6	7.90
1.80V	468	340	246	140	88.1	36.9	23.1	15.4	7.72
1.85V	425	322	223	131	82.8	35.8	22.4	15.2	7.62

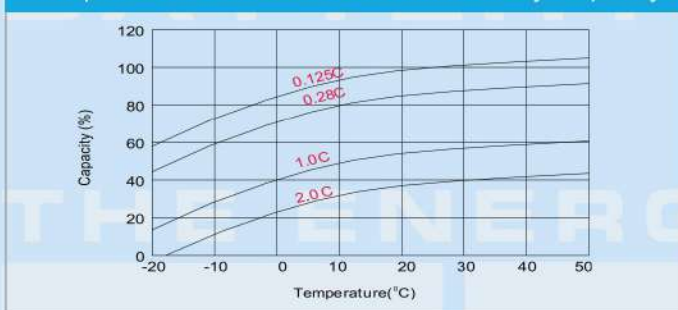
### Discharge Characteristics



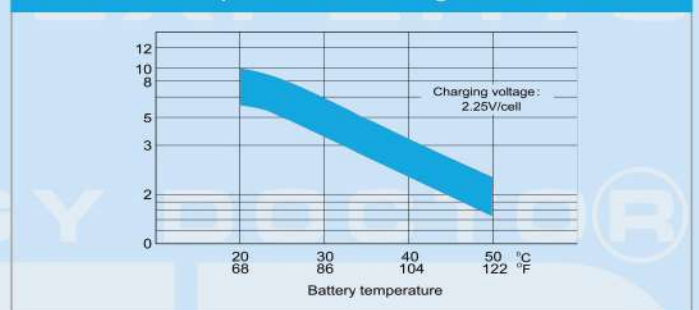
### Float Charging Characteristics



### 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.