THE ENERGY DOCTOR®

TED

BATTERY EXPERTS

Data sheet

Valve-Regulated Lead-Acid battery

TED1267
GEL SERIES 12V 67Ah

Physical Specifications

Part Number: TED1267 GEL SERIES
Length: 348 ± 2 mm (13.70 inches)
Width: 167 ± 2 mm (6.57 inches)
Height: 178 ± 2 mm (7.01 inches)
Weight: ~ 20.9 kg (45.2 lbs)

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 20ºC (68ºF): 12 Years

Maxim Discharge Current: 788A/5sec.

Internal Resistance: Approximative 7.2mΩ

Cycle Use: Initial Charging Current Less Than 19.0A • Voltage 14.4÷14.8 at 25ºC (77ºF) • Temperature Coefficient -30mV/ºC
Standby Use: No Limit on Initial Charging Current Voltage 13.5÷13.8V at 25ºC (77ºF) • Temperature Coefficient -20mV/ºC
Capacity Affected by Temperature 40ºC (104ºF) 103% 25ºC (77ºF) 100% 0ºC (32ºF) 86%

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

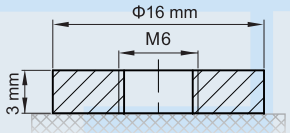
Rated Capacity

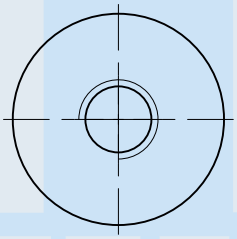
67.0Ah/3.35A	20hr	1.80V/cell 25ºC/77ºF
62.1Ah/6.21A	10hr	1.80V/cell 25ºC/77ºF
53.6Ah/10.7A	5hr	1.75V/cell 25ºC/77ºF
45.8Ah/15.3A	3hr	1.75V/cell 25ºC/77ºF
37.5Ah/37.5A	1hr	1.60V/cell 25ºC/77ºF

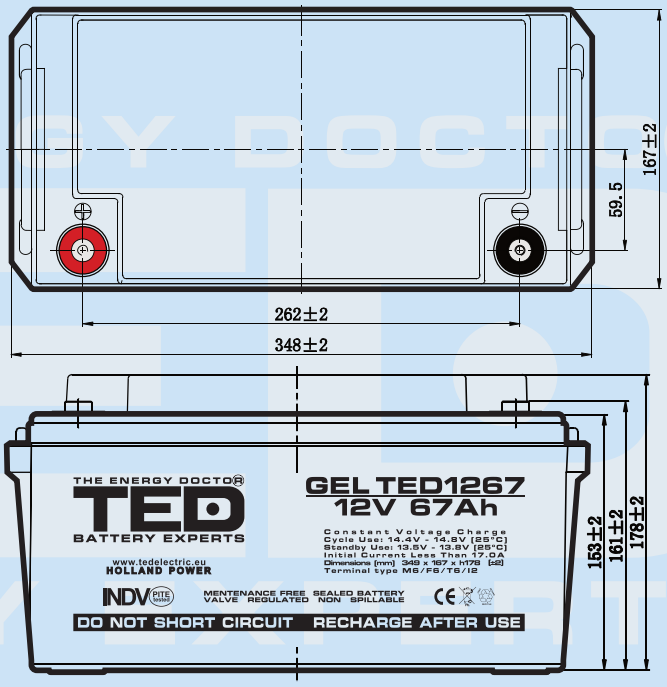
Discharge Characteristics

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

Terminal Type: Standard M6 (F6/T6/I2)







TED Electric, Holland, City: Wassenaar, Dr. Mansveltkade Street 48, Postal code: 2242XM

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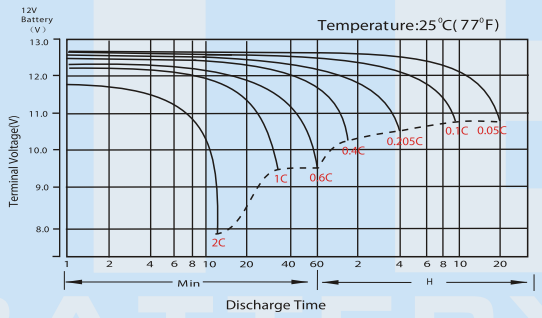
Constant Current Discharge (Amperes) at 25ºC

F.V/Time	5 min	10 min	15 min	20 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	114.0	87.6	75.5	65.6	50.8	37.8	30.6	18.5	14.2	11.78	10.04	8.79	7.11	5.98	3.20
1.80V/cell	142.7	102.5	85.9	73.8	55.7	40.8	32.7	19.7	14.9	12.34	10.47	9.16	7.40	6.21	3.25
1.75V/cell	160.9	111.8	93.8	79.0	58.7	42.8	34.2	20.4	15.3	12.65	10.72	9.35	7.51	6.27	3.29
1.70V/cell	177.1	120.7	100.1	82.9	61.4	44.3	35.6	21.1	15.8	12.96	10.97	9.53	7.62	6.33	3.32
1.67V/cell	193.8	130.0	105.1	86.1	63.3	45.8	36.6	21.6	16.2	13.23	11.18	9.70	7.73	6.40	3.37
1.60V/cell	210.1	138.2	109.3	89.4	65.0	47.4	37.5	22.1	16.6	13.49	11.38	9.84	7.83	6.48	3.38

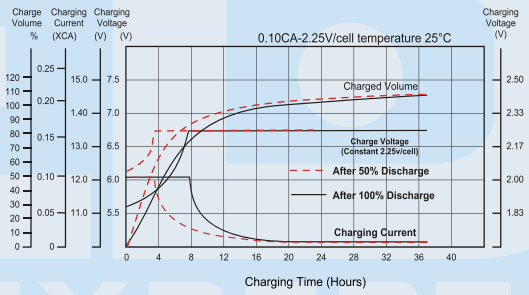
Constant Power Discharge (Watts) at 25ºC

F.V/Time	5 min	10 min	15 min	20 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	208.5	161.7	140.9	123.6	96.8	72.7	59.1	35.9	27.7	23.0	19.7	17.28	14.04	11.83	6.34
1.80V/cell	258.1	187.0	158.1	137.0	104.6	77.9	62.8	37.9	29.0	24.0	20.4	17.93	14.56	12.27	6.43
1.75V/cell	284.8	200.8	170.5	145.3	109.3	80.9	65.3	39.3	29.6	24.5	20.9	18.24	14.74	12.38	6.50
1.70V/cell	304.9	211.9	179.5	151.4	113.6	83.4	67.7	40.4	30.4	25.1	21.3	18.58	14.94	12.49	6.56
1.67V/cell	328.8	226.2	186.9	156.0	116.3	85.4	69.1	41.2	31.1	25.5	21.6	18.84	15.13	12.61	6.64
1.60V/cell	348.4	235.0	191.2	160.3	118.4	87.9	70.5	41.9	31.6	25.9	21.9	19.07	15.30	12.74	6.66

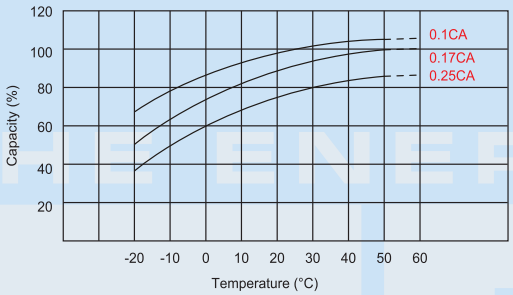
Discharge Characteristics



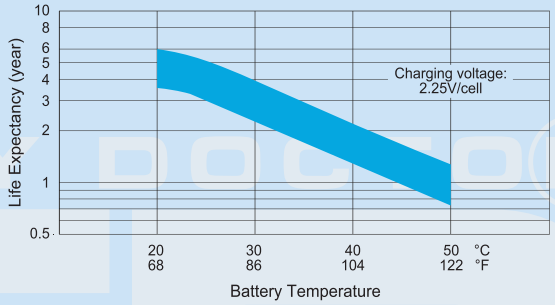
Float Charging Characteristics



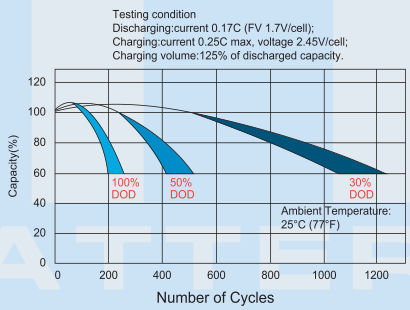
Temperature Effects in Relation to Battery Capacity



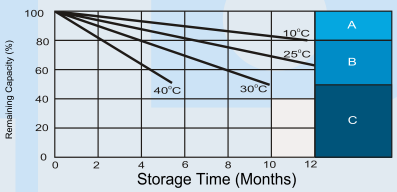
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



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 2.25Vcell.
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.

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