

Tubular Gel VRLA Battery

ETERNIA series

For Solar Applications

MICROTEX

Since 1969



Microtex is a leading manufacturer of Industrial Batteries in Bangalore, India. The factory has a covered area of 26,700 Sq ft on 5 acres of land, with 300 committed persons. Established 1969, it is a company well known for its high quality. Microtex produces in house, the specially designed lead alloys, lead oxides, grid castings, pasted plates, injection molded containers, multi-tubular gauntlets, PVC separators and produces the complete battery using state of the art industry standard battery making machinery.

The ETERNIA series Tubular Gel battery technology with improved Features for Solar applications.

Service life reliability of a flooded battery with the performance energy density of a maintenance free valve regulated Tubular Gel battery, Microtex has developed the ETERNIA batteries which are in high in power density provides for a 15 + year designed life, in a space saving module, to reduce total ownership cost

The ETERNIA battery yields good electrical energy and manufacture in an environmentally friendly plant.

APPLICATIONS

- Solar Photovoltaic
- Wind Hybrid Systems
- Off Grid/Solar
- Renewable Energy
- Communications
- Grid scale energy storage

FEATURES & BENEFITS

- Modular design for ease of installation and stacking flexibility.
- Space saving design for the highest amount of power in a small footprint
- Available in a wide range to meet customer requirements.
- Larger Terminal Post Design - Strong posts with good conductivity and mechanical strength. Threaded Lead Tin coated copper/brass inserts gives better conductivity and increased high-rate performance.
- Lead Tin coated copper alloy connectors minimize maintenance
- Low internal resistance values for each cell.
- In house manufactured PVC Separators for extra strength, ultra-low float current - increases service life.
- Thicker spines positive grids in European DIN design and Tin Calcium Alloys cast at 150 bars pressure ensures better compression and packing of lead ensuring increased battery life.
- Robust polypropylene co polymer container and cover – enhances product quality and improves strength of materials for safe operation with flammability rating UL94 V0. Excellent jar to Lid heat sealing with 100% leak testing.

- FR Resin bonded post seal with unique double seal terminal design.
- High performing vent valves which built-in flame arrestor with consistent opening and closing of valves (throughout the life of the battery) - ensures the cells do not fail due to dry out.

PROCESSES

- Advanced Nano Carbon Technology - proprietary active material mix for high utilization during its life ensures consistent high energy density and low float current.
- Balanced active materials leading to excellent charge acceptance.
- Advanced formation process results in a narrow float voltage, rendering on-site float matching unnecessary.
- Highly controlled manufacturing processes for exceptional and consistent plate and cell quality

SERVICE LIFE & WARRANTY

- The cell design and manufacturing processes provides for a 15+ year design life
- Microtex Tubular Gel VRLA cells have been in service Since 2005.

EXPERIENCE

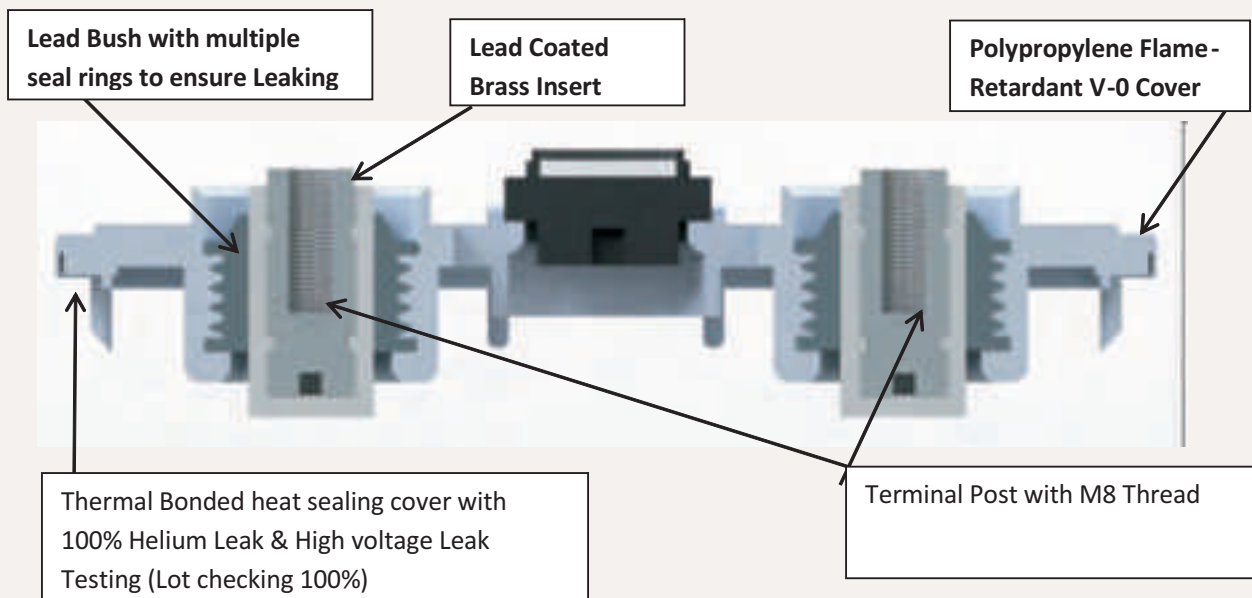
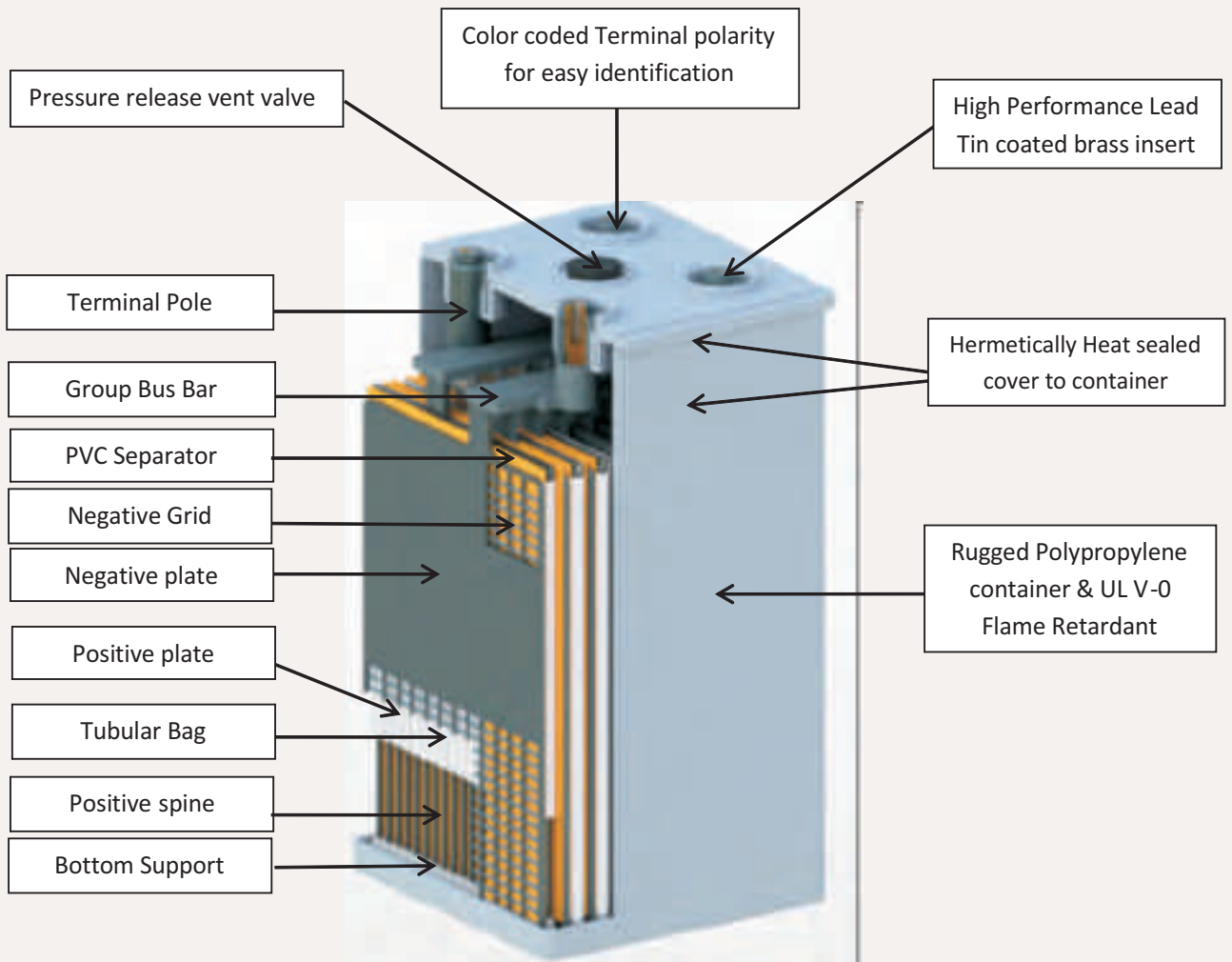
- Established 1969 - over 50 years of experience in the Battery industry
- The company produces in house the complete battery and its components

SPECIFICATIONS AND CHARACTERISTICS

Cells, Voltage per Unit	1 cell, 2V DC
Optimum Energy Saving Operating Temperature	+27°C (+80.6°F)
Connection Torque	Initial: 107 in-lbs (12 N-m), Re-torque: 125 in-lbs (14 N-m)
Recommended Float Charging Voltage	2.23 - 2.25 volts per cell average @ +27°C (+80.6°F)
Recommended Boost Charging Voltage	2.30 - 2.35 volts per cell average @ +27°C (+80.6°F)
Maximum Float Charging Current	0.2 C of rated capacity at 10 Hour @ +27°C (+80.6°F)
Maximum Boost Charging Current	0.3 C of rated capacity at 10 Hour @ +27°C (+80.6°F)

ISO 9001:2015 and ISO 14001:2015 certified

Constructional view of Tubular Gel VRLA cell



Stackable Module System with dimensions and weights of 2 volts T Gel cells.

Microtex ETERNIA Tubular Gel cells are designed to be mounted in stackable modules of either 2, 3, 4, 6 or 8 cells per stack.

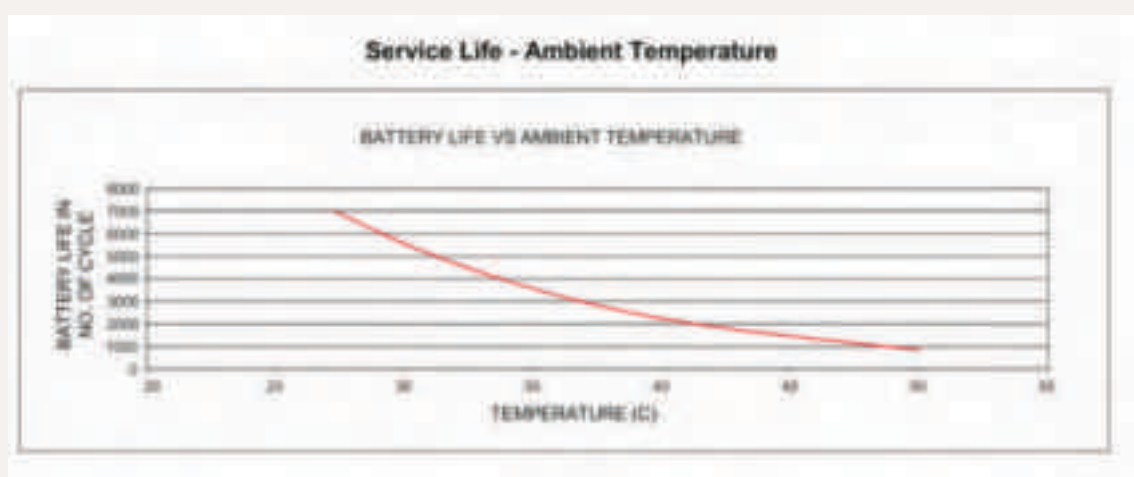
Product Code	Voltage	Material of Container	Capacity in Ah at 27 Deg C 10 Hr	Capacity in Ah at 27 Deg C 20 Hr	Cell Dimensions			Cell Weight Appx. Kgs with Gel Electrolyte
					Length ± 5 mm	Width ± 5 mm	Height ± 5 mm	
M100TGV	2V	PPCP	100	120	70	202	356	9.5
M160TGV	2V	PPCP	160	192	70	202	356	12
M240TGV	2V	PPCP	240	288	85	202	380	16
M300TGV	2V	PPCP	300	360	103	202	380	20.5
M360TGV	2V	PPCP	360	432	140	202	380	25.5
M420TGV	2V	PPCP	420	504	140	202	380	27.9
M500TGV	2V	PPCP	500	600	195	202	380	37.6
M600TGV	2V	PPCP	600	720	195	202	380	40.5
M800TGV	2V	PPCP	800	960	232	202	490	58.4
M900TGV	2V	PPCP	900	1080	232	202	490	61.9
M1000TGV	2V	PPCP	1000	1200	232	202	490	65.4
M1100TGV	2V	PPCP	1100	1320	195	202	640	72
M1250TGV	2V	PPCP	1250	1500	232	202	640	79.5
M2000TGV	2V	PPCP	2000	2400	464	202	490	130.8
M3000TGV	2V	PPCP	3000	3600	696	202	490	196.8
M4000TGV	2V	PPCP	4000	4800	928	202	490	261.6
M5000TGV	2V	PPCP	5000	6000	928	202	640	318

Compliance to Specifications:

Bs6290 Part IV, IEC60896-Part 21&22

IEC61427

BSNL GR No TEC/GR/TX/BAT-003/02 March 2011 with Amdt No 1



Microtex ETERNIA T Gel with advanced Nano Carbon and graphite is the latest advancement in lead acid battery technology.

By combining the service life reliability of a flooded battery with the performance energy density of a valve-regulated battery,

Microtex has created the ETERNIA— The True Long -Life unmatched in power density with space saving modular designs and

have a 15 + year design life to reduce total cost of ownership.

Model Type	Capacity (Ah) at C10 rate	DISCHARGE CURRENT IN AMPS AT 1.75 ECV AT 27 °C												
		5min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	72h	120h
M 100 TGV	100	105.00	93.50	81.20	70.20	58.30	45.50	32.07	19.40	12.67	10.74	6.50	2.06	1.32
M 160 TGV	160	168.00	149.60	129.92	112.32	93.28	72.80	51.31	31.04	20.27	17.19	10.40	3.30	2.11
M 240 TGV	240	252.00	224.40	194.88	168.48	139.92	109.20	76.96	46.56	30.40	25.78	15.60	4.95	3.17
M 300 TGV	300	315.00	280.50	243.60	210.60	174.90	136.50	96.20	58.20	38.00	32.22	19.50	6.19	3.96
M 360 TGV	360	378.00	336.60	292.32	252.72	209.88	163.80	115.44	69.84	45.60	38.67	23.40	7.42	4.76
M 420 TGV	420	441.00	392.70	341.04	294.84	244.86	191.10	134.68	81.48	53.20	45.11	27.30	8.66	5.55
M 500 TGV	500	525.00	467.50	406.00	351.00	291.50	227.50	160.34	97.00	63.34	53.71	32.50	10.31	6.61
M 600 TGV	600	630.00	561.00	487.20	421.20	349.80	273.00	192.40	116.40	76.00	64.45	39.00	12.37	7.93
M 800 TGV	800	840.00	748.00	649.60	561.60	466.40	364.00	256.54	155.20	101.34	85.93	52.00	16.50	10.57
M 900 TGV	900	945.00	841.50	730.80	631.80	524.70	409.50	288.60	174.60	114.00	96.67	58.50	18.56	11.89
M 1000 TGV	1000	1050.00	935.00	812.00	702.00	583.00	455.00	320.67	194.00	126.67	107.41	65.00	20.62	13.22
M 1100 TGV	1100	1155.00	1028.50	893.20	772.20	641.30	500.50	352.74	213.40	139.34	118.15	71.50	22.68	14.54
M 1250 TGV	1250	1312.50	1168.75	1015.00	877.50	728.75	568.75	400.84	242.50	158.34	134.26	81.25	25.78	16.52
M 2000 TGV	2000	2100.00	1870.00	1624.00	1404.00	1166.00	910.00	641.34	388.00	253.34	214.82	130.00	41.24	26.43
M 2500 TGV	2500	2625.00	2337.50	2030.00	1755.00	1457.50	1137.50	801.68	485.00	316.68	268.53	162.50	51.55	33.04
M 3000 TGV	3000	3150.00	2805.00	2436.00	2106.00	1749.00	1365.00	962.01	582.00	380.01	322.23	195.00	61.86	39.65
M 4000 TGV	4000	4200.00	3740.00	3248.00	2808.00	2332.00	1820.00	1282.68	776.00	506.68	429.64	260.00	82.48	52.86
M 5000 TGV	5000	5250.00	4675.00	4060.00	3510.00	2915.00	2275.00	1603.35	970.00	633.35	537.05	325.00	103.10	66.08

Model Type	Capacity (Ah) at C10 rate	DISCHARGE CURRENT IN AMPS AT 1.80 ECV AT 27 °C												
		5min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	72h	120h
M 100 TGV	100	96.83	84.40	72.40	62.40	51.30	39.50	28.83	18.67	12.50	10.38	6.38	2.02	1.30
M 160 TGV	160	154.93	135.04	115.84	99.84	82.08	63.20	46.13	29.87	20.00	16.61	10.20	3.24	2.09
M 240 TGV	240	232.39	202.56	173.76	149.76	123.12	94.80	69.20	44.80	30.00	24.92	15.30	4.86	3.13
M 300 TGV	300	290.49	253.20	217.20	187.20	153.90	118.50	86.50	56.00	37.50	31.15	19.13	6.07	3.91
M 360 TGV	360	348.59	303.84	260.64	224.64	184.68	142.20	103.80	67.20	45.00	37.38	22.95	7.28	4.69
M 420 TGV	420	406.69	354.48	304.08	262.08	215.46	165.90	121.10	78.40	52.50	43.60	26.78	8.50	5.47
M 500 TGV	500	484.15	422.00	362.00	312.00	256.50	197.50	144.17	93.34	62.50	51.91	31.88	10.12	6.52
M 600 TGV	600	580.98	506.40	434.40	374.40	307.80	237.00	173.00	112.00	75.00	62.29	38.25	12.14	7.82
M 800 TGV	800	774.64	675.20	579.20	499.20	410.40	316.00	230.66	149.34	100.00	83.06	51.00	16.19	10.43
M 900 TGV	900	871.47	759.60	651.60	561.60	461.70	355.50	259.50	168.00	112.50	93.44	57.38	18.21	11.73
M 1000 TGV	1000	968.30	844.00	724.00	624.00	513.00	395.00	288.33	186.67	125.00	103.82	63.75	20.23	13.03
M 1100 TGV	1100	1065.13	928.40	796.40	686.40	564.30	434.50	317.16	205.34	137.50	114.20	70.13	22.26	14.34
M 1250 TGV	1250	1210.38	1055.00	905.00	780.00	641.25	493.75	360.41	233.34	156.25	129.78	79.69	25.29	16.29
M 2000 TGV	2000	1936.60	1688.00	1448.00	1248.00	1026.00	790.00	576.66	373.34	250.00	207.64	127.50	40.47	26.07
M 2500 TGV	2500	2420.75	2110.00	1810.00	1560.00	1282.50	987.50	720.83	466.68	312.50	259.55	159.38	50.58	32.58
M 3000 TGV	3000	2904.90	2532.00	2172.00	1872.00	1539.00	1185.00	864.99	560.01	375.00	311.46	191.25	60.70	39.10
M 4000 TGV	4000	3873.20	3376.00	2896.00	2496.00	2052.00	1580.00	1153.32	746.68	500.00	415.28	255.00	80.93	52.13
M 5000 TGV	5000	4841.50	4220.00	3620.00	3120.00	2565.00	1975.00	1441.65	933.35	625.00	519.10	318.75	101.17	65.17

Model Type	Capacity (Ah) at C10 rate	DISCHARGE CURRENT IN AMPS AT 1.85 ECV AT 27 °C												
		5min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	72h	120h
M 100 TGV	100	88.66	75.60	64.80	53.70	43.10	32.80	25.00	17.77	12.11	9.93	6.13	1.97	1.26
M 160 TGV	160	141.86	120.96	103.68	85.92	68.96	52.48	40.00	28.43	19.37	15.89	9.80	3.15	2.02
M 240 TGV	240	212.78	181.44	155.52	128.88	103.44	78.72	60.00	42.64	29.06	23.84	14.70	4.72	3.03
M 300 TGV	300	265.98	226.80	194.40	161.10	129.30	98.40	75.00	53.30	36.32	29.80	18.38	5.90	3.78
M 360 TGV	360	319.18	272.16	233.28	193.32	155.16	118.08	90.00	63.96	43.59	35.76	22.05	7.08	4.54
M 420 TGV	420	372.37	317.52	272.16	225.54	181.02	137.76	105.00	74.62	50.85	41.72	25.73	8.26	5.30
M 500 TGV	500	443.30	378.00	324.00	268.50	215.50	164.00	125.00	88.84	60.54	49.67	30.63	9.83	6.31
M 600 TGV	600	531.96	453.60	388.80	322.20	258.60	196.80	150.00	106.60	72.65	59.60	36.75	11.80	7.57
M 800 TGV	800	709.28	604.80	518.40	429.60	344.80	262.40	200.00	142.14	96.86	79.46	49.00	15.73	10.09
M 900 TGV	900	797.94	680.40	583.20	483.30	387.90	295.20	225.00	159.90	108.97	89.40	55.13	17.70	11.35
M 1000 TGV	1000	886.60	756.00	648.00	537.00	431.00	328.00	250.00	177.67	121.08	99.33	61.25	19.67	12.62
M 1100 TGV	1100	975.26	831.60	712.80	590.70	474.10	360.80	275.00	195.44	133.19	109.26	67.38	21.63	13.88
M 1250 TGV	1250	1108.25	945.00	810.00	671.25	538.75	410.00	312.50	222.09	151.35	124.16	76.56	24.58	15.77
M 2000 TGV	2000	1773.20	1512.00	1296.00	1074.00	862.00	656.00	500.00	355.34	242.16	198.66	122.50	39.33	25.23
M 2500 TGV	2500	2216.50	1890.00	1620.00	1342.50	1077.50	820.00	625.00	444.18	302.70	248.33	153.13	49.17	31.54
M 3000 TGV	3000	2659.80	2268.00	1944.00	1611.00	1293.00	984.00	750.00	533.01	363.24	297.99	183.75	59.00	37.85
M 4000 TGV	4000	3546.40	3024.00	2592.00	2148.00	1724.00	1312.00	1000.00	710.68	484.32	397.32	245.00	78.66	50.46
M 5000 TGV	5000	4433.00	3780.00	3240.00	2685.00	2155.00	1640.00	1250.00	888.35	605.40	496.65	306.25	98.33	63.08

Model Type	Capacity (Ah) at C10 rate	DISCHARGE CURRENT IN AMPS AT 1.90 ECV AT 27 °C												
		5min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	72h	120h
M 100 TGV	100	80.33	67.60	55.60	46.50	36.10	27.83	20.37	16.00	10.94	9.25	5.56	1.84	1.19
M 160 TGV	160	128.53	108.16	88.96	74.40	57.76	44.53	32.59	25.60	17.50	14.80	8.90	2.94	1.91
M 240 TGV	240	192.80	162.24	133.44	111.60	86.64	66.80	48.88	38.40	26.25	22.20	13.35	4.41	2.86
M 300 TGV	300	241.00	202.80	166.80	139.50	108.30	83.50	61.10	48.00	32.81	27.75	16.68	5.51	3.58
M 360 TGV	360	289.20	243.36	200.16	167.40	129.96	100.20	73.32	57.60	39.37	33.30	20.02	6.62	4.30
M 420 TGV	420	337.40	283.92	233.52	195.30	151.62	116.90	85.54	67.20	45.93	38.85	23.36	7.72	5.01
M 500 TGV	500	401.67	338.00	278.00	232.50	180.50	139.17	101.84	80.00	54.68	46.25	27.81	9.19	5.97
M 600 TGV	600	482.00	405.60	333.60	279.00	216.60	167.00	122.20	96.00	65.62	55.50	33.37	11.03	7.16
M 800 TGV	800	642.66	540.80	444.80	372.00	288.80	222.66	162.94	128.00	87.49	74.00	44.49	14.71	9.55
M 900 TGV	900	723.00	608.40	500.40	418.50	324.90	250.50	183.30	144.00	98.43	83.25	50.05	16.54	10.74
M 1000 TGV	1000	803.33	676.00	556.00	465.00	361.00	278.33	203.67	160.00	109.37	92.50	55.61	18.38	11.93
M 1100 TGV	1100	883.66	743.60	611.60	511.50	397.10	306.16	224.04	176.00	120.30	101.75	61.17	20.22	13.13
M 1250 TGV	1250	1004.16	845.00	695.00	581.25	451.25	347.91	254.59	200.00	136.71	115.63	69.51	22.98	14.92
M 2000 TGV	2000	1606.66	1352.00	1112.00	930.00	722.00	556.66	407.34	320.00	218.73	185.00	111.22	36.77	23.87
M 2500 TGV	2500	2008.33	1690.00	1390.00	1162.50	902.50	695.83	509.18	400.00	273.42	231.25	139.03	45.96	29.83
M 3000 TGV	3000	2409.99	2028.00	1668.00	1395.00	1083.00	834.99	611.01	480.00	328.10	277.50	166.83	55.15	35.80
M 4000 TGV	4000	3213.32	2704.00	2224.00	1860.00	1444.00	1113.32	814.68	640.00	437.46	370.00	222.44	73.53	47.73
M 5000 TGV	5000	4016.65	3380.00	2780.00	2325.00	1805.00	1391.65	1018.35	800.00	546.83	462.50	278.05	91.92	59.67

Model Type	Capacity (AH) at C10 rate	DISCHARGE POWER IN WATTS AT 1.75 ECV AT 27 °C												
		5min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	72h	120h
M 100 TGV	100	183.75	163.63	142.10	122.85	102.03	79.63	56.12	33.95	22.17	18.80	11.38	3.61	2.31
M 160 TGV	160	294.00	261.80	227.36	196.56	163.24	127.40	89.79	54.32	35.47	30.07	18.20	5.77	3.70
M 240 TGV	240	441.00	392.70	341.04	294.84	244.86	191.10	134.68	81.48	53.20	45.11	27.30	8.66	5.55
M 300 TGV	300	551.25	490.88	426.30	368.55	306.08	238.88	168.35	101.85	66.50	56.39	34.13	10.83	6.94
M 360 TGV	360	661.50	589.05	511.56	442.26	367.29	286.65	202.02	122.22	79.80	67.67	40.95	12.99	8.33
M 420 TGV	420	771.75	687.23	596.82	515.97	428.51	334.43	235.69	142.59	93.10	78.95	47.78	15.16	9.71
M 500 TGV	500	918.75	818.13	710.50	614.25	510.13	398.13	280.59	169.75	110.84	93.98	56.88	18.04	11.56
M 600 TGV	600	1102.50	981.75	852.60	737.10	612.15	477.75	336.70	203.70	133.00	112.78	68.25	21.65	13.88
M 800 TGV	800	1470.00	1309.00	1136.80	982.80	816.20	637.00	448.94	271.60	177.34	150.37	91.00	28.87	18.50
M 900 TGV	900	1653.75	1472.63	1278.90	1105.65	918.23	716.63	505.06	305.55	199.51	169.17	102.38	32.48	20.82
M 1000 TGV	1000	1837.50	1636.25	1421.00	1228.50	1020.25	796.25	561.17	339.50	221.67	187.97	113.75	36.09	23.13
M 1100 TGV	1100	2021.25	1799.88	1563.10	1351.35	1122.28	875.88	617.29	373.45	243.84	206.76	125.13	39.69	25.44
M 1250 TGV	1250	2296.88	2045.31	1776.25	1535.63	1275.31	995.31	701.47	424.38	277.09	234.96	142.19	45.11	28.91
M 2000 TGV	2000	3675.00	3272.50	2842.00	2457.00	2040.50	1592.50	1122.35	679.00	443.35	375.94	227.50	72.17	46.26
M 2500 TGV	2500	4593.75	4090.63	3552.50	3071.25	2550.63	1990.63	1402.93	848.75	554.18	469.92	284.38	90.21	57.82
M 3000 TGV	3000	5512.50	4908.75	4263.00	3685.50	3060.75	2388.75	1683.52	1018.50	665.02	563.90	341.25	108.26	69.38
M 4000 TGV	4000	7350.00	6545.00	5684.00	4914.00	4081.00	3185.00	2244.69	1358.00	886.69	751.87	455.00	144.34	92.51
M 5000 TGV	5000	9187.50	8181.25	7105.00	6142.50	5101.25	3981.25	2805.86	1697.50	1108.36	939.84	568.75	180.43	115.64

Model Type	Capacity (AH) at C10 rate	DISCHARGE POWER IN WATTS AT 1.80 ECV AT 27 °C												
		5min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	72h	120h
M 100 TGV	100	174.29	151.92	130.32	112.32	92.34	71.10	51.90	33.60	22.50	18.69	11.48	3.64	2.35
M 160 TGV	160	278.87	243.07	208.51	179.71	147.74	113.76	83.04	53.76	36.00	29.90	18.36	5.83	3.75
M 240 TGV	240	418.31	364.61	312.77	269.57	221.62	170.64	124.56	80.64	54.00	44.85	27.54	8.74	5.63
M 300 TGV	300	522.88	455.76	390.96	336.96	277.02	213.30	155.70	100.80	67.50	56.06	34.43	10.93	7.04
M 360 TGV	360	627.46	546.91	469.15	404.35	332.42	255.96	186.84	120.96	81.00	67.28	41.31	13.11	8.45
M 420 TGV	420	732.03	638.06	547.34	471.74	387.83	298.62	217.98	141.12	94.50	78.49	48.20	15.30	9.85
M 500 TGV	500	871.47	759.60	651.60	561.60	461.70	355.50	259.50	168.00	112.50	93.44	57.38	18.21	11.73
M 600 TGV	600	1045.76	911.52	781.92	673.92	554.04	426.60	311.40	201.60	135.00	112.13	68.85	21.85	14.08
M 800 TGV	800	1394.35	1215.36	1042.56	898.56	738.72	568.80	415.20	268.80	180.00	149.50	91.80	29.14	18.77
M 900 TGV	900	1568.65	1367.28	1172.88	1010.88	831.06	639.90	467.09	302.41	202.50	168.19	103.28	32.78	21.11
M 1000 TGV	1000	1742.94	1519.20	1303.20	1123.20	923.40	711.00	518.99	336.01	225.00	186.88	114.75	36.42	23.46
M 1100 TGV	1100	1917.23	1671.12	1433.52	1235.52	1015.74	782.10	570.89	369.61	247.50	205.56	126.23	40.06	25.81
M 1250 TGV	1250	2178.68	1899.00	1629.00	1404.00	1154.25	888.75	648.74	420.01	281.25	233.60	143.44	45.52	29.32
M 2000 TGV	2000	3485.88	3038.40	2606.40	2246.40	1846.80	1422.00	1037.99	672.01	450.00	373.75	229.50	72.84	46.92
M 2500 TGV	2500	4357.35	3798.00	3258.00	2808.00	2308.50	1777.50	1297.49	840.02	562.50	467.19	286.88	91.05	58.65
M 3000 TGV	3000	5228.82	4557.60	3909.60	3369.60	2770.20	2133.00	1556.98	1008.02	675.00	560.63	344.25	109.26	70.38
M 4000 TGV	4000	6971.76	6076.80	5212.80	4492.80	3693.60	2844.00	2075.98	1344.02	900.00	747.50	459.00	145.68	93.84
M 5000 TGV	5000	8714.70	7596.00	6516.00	5616.00	4617.00	3555.00	2594.97	1680.03	1125.00	934.38	573.75	182.10	117.30

Model Type	Capacity (AH) at C10 rate	DISCHARGE POWER IN WATTS AT 1.85 ECV AT 27 °C												
		5min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	72h	120h
M 100 TGV	100	164.02	139.86	119.88	99.35	79.74	60.68	46.25	32.87	22.40	18.38	11.33	3.64	2.33
M 160 TGV	160	262.43	223.78	191.81	158.95	127.58	97.09	74.00	52.59	35.84	29.40	18.13	5.82	3.73
M 240 TGV	240	393.65	335.66	287.71	238.43	191.36	145.63	111.00	78.89	53.76	44.10	27.20	8.73	5.60
M 300 TGV	300	492.06	419.58	359.64	298.04	239.21	182.04	138.75	98.61	67.20	55.13	33.99	10.91	7.00
M 360 TGV	360	590.48	503.50	431.57	357.64	287.05	218.45	166.50	118.33	80.64	66.15	40.79	13.10	8.40
M 420 TGV	420	688.89	587.41	503.50	417.25	334.89	254.86	194.25	138.05	94.08	77.18	47.59	15.28	9.80
M 500 TGV	500	820.11	699.30	599.40	496.73	398.68	303.40	231.25	164.34	112.00	91.88	56.66	18.19	11.67
M 600 TGV	600	984.13	839.16	719.28	596.07	478.41	364.08	277.50	197.21	134.40	110.26	67.99	21.83	14.00
M 800 TGV	800	1312.17	1118.88	959.04	794.76	637.88	485.44	370.00	262.95	179.20	147.01	90.65	29.11	18.67
M 900 TGV	900	1476.19	1258.74	1078.92	894.11	717.62	546.12	416.25	295.82	201.60	165.38	101.98	32.74	21.01
M 1000 TGV	1000	1640.21	1398.60	1198.80	993.45	797.35	606.80	462.50	328.69	224.00	183.76	113.31	36.38	23.34
M 1100 TGV	1100	1804.23	1538.46	1318.68	1092.80	877.09	667.48	508.75	361.56	246.40	202.14	124.64	40.02	25.67
M 1250 TGV	1250	2050.26	1748.25	1498.50	1241.81	996.69	758.50	578.13	410.86	280.00	229.70	141.64	45.48	29.17
M 2000 TGV	2000	3280.42	2797.20	2397.60	1986.90	1594.70	1213.60	925.00	657.38	448.00	367.52	226.63	72.76	46.68
M 2500 TGV	2500	4100.53	3496.50	2997.00	2483.63	1993.38	1517.00	1156.25	821.72	560.00	459.40	283.28	90.96	58.35
M 3000 TGV	3000	4920.63	4195.80	3596.40	2980.35	2392.05	1820.40	1387.50	986.07	671.99	551.28	339.94	109.15	70.02
M 4000 TGV	4000	6560.84	5594.40	4795.20	3973.80	3189.40	2427.20	1850.00	1314.76	895.99	735.04	453.25	145.53	93.36
M 5000 TGV	5000	8201.05	6993.00	5994.00	4967.25	3986.75	3034.00	2312.50	1643.45	1119.99	918.80	566.56	181.91	116.70

Model Type	Capacity (AH) at C10 rate	DISCHARGE POWER IN WATTS AT 1.90 ECV AT 27 °C												
		5min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	72h	120h
M 100 TGV	100	152.63	128.44	105.64	88.35	68.59	52.88	38.70	30.40	20.78	17.58	10.57	3.49	2.27
M 160 TGV	160	244.21	205.50	169.02	141.36	109.74	84.61	61.92	48.64	33.25	28.12	16.91	5.59	3.63
M 240 TGV	240	366.32	308.26	253.54	212.04	164.62	126.92	92.87	72.96	49.87	42.18	25.36	8.38	5.44
M 300 TGV	300	457.90	385.32	316.92	265.05	205.77	158.65	116.09	91.20	62.34	52.73	31.70	10.48	6.80
M 360 TGV	360	549.48	462.38	380.30	318.06	246.92	190.38	139.31	109.44	74.81	63.27	38.04	12.57	8.16
M 420 TGV	420	641.06	539.45	443.69	371.07	288.08	222.11	162.53	127.68	87.27	73.82	44.38	14.67	9.52
M 500 TGV	500	763.16	642.20	528.20	441.75	342.95	264.41	193.49	152.00	103.90	87.88	52.83	17.46	11.34
M 600 TGV	600	915.80	770.64	633.84	530.10	411.54	317.30	232.18	182.40	124.68	105.45	63.40	20.96	13.60
M 800 TGV	800	1221.06	1027.52	845.12	706.80	548.72	423.06	309.58	243.20	166.24	140.60	84.53	27.94	18.14
M 900 TGV	900	1373.69	1155.96	950.76	795.15	617.31	475.94	348.28	273.60	187.02	158.18	95.09	31.44	20.41
M 1000 TGV	1000	1526.33	1284.40	1056.40	883.50	685.90	528.83	386.97	304.00	207.80	175.75	105.66	34.93	22.67
M 1100 TGV	1100	1678.96	1412.84	1162.04	971.85	754.49	581.71	425.67	334.40	228.57	193.33	116.22	38.42	24.94
M 1250 TGV	1250	1907.91	1605.50	1320.50	1104.38	857.38	661.03	483.72	380.00	259.74	219.69	132.07	43.66	28.34
M 2000 TGV	2000	3052.65	2568.80	2112.80	1767.00	1371.80	1057.65	773.95	608.00	415.59	351.50	211.32	69.86	45.35
M 2500 TGV	2500	3815.82	3211.00	2641.00	2208.75	1714.75	1322.07	967.43	760.00	519.49	439.38	264.15	87.32	56.68
M 3000 TGV	3000	4578.98	3853.20	3169.20	2650.50	2057.70	1586.48	1160.92	912.00	623.39	527.25	316.98	104.78	68.02
M 4000 TGV	4000	6105.31	5137.60	4225.60	3534.00	2743.60	2115.31	1547.89	1216.00	831.18	703.00	422.64	139.71	90.69
M 5000 TGV	5000	7631.64	6422.00	5282.00	4417.50	3429.50	2644.14	1934.87	1520.00	1038.98	878.75	528.30	174.64	113.36

Performance details:

Self-discharge	:	Less than 1% per week
Shelf life without re-charge	:	May be stored up to 6 Months*
Operating conditions	:	-40°C to + 55°C
Design Float Life	:	Up to 15 + Year
Design Cycle Life	:	5200 Cycles at 20% Depth of Discharge 3000 Cycles at 50% Depth of Discharge 1800 Cycles at 80% Depth of Discharge

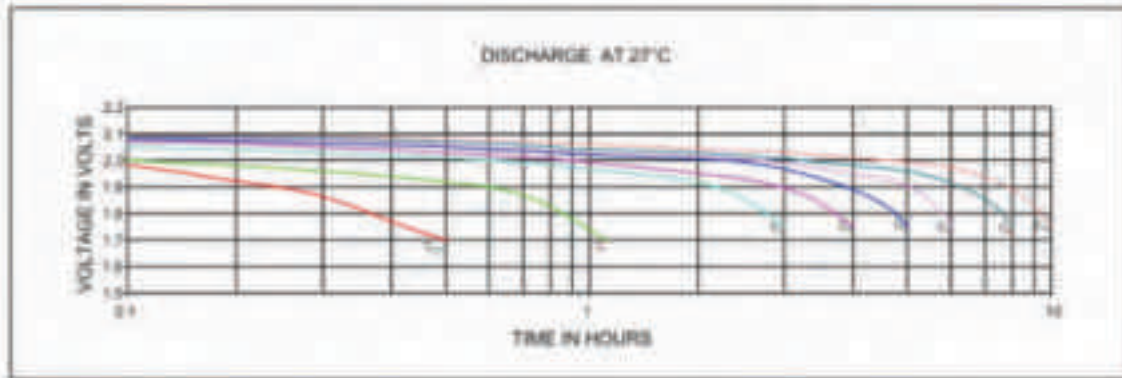
Note: All values are rated at 27°C. Charging parameters at 27°C

*Please refer to Instruction manual for storage requirements.

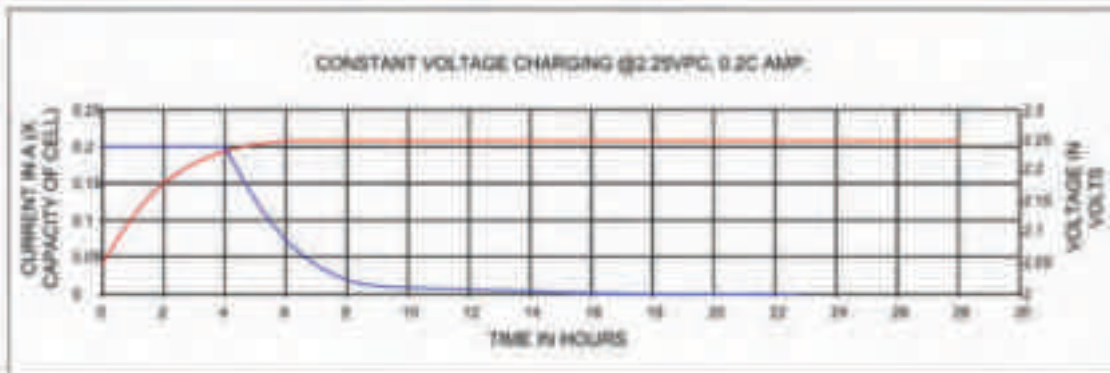
The ETERNIA T Gel sealed battery is the environmentally friendly battery that saves you money in your operation.

- Up to 65% to 75% lower float current
- Consumes about 70% less electricity
- Lower float current generates less heat
- Less heat generated reduces required air conditioning
- Less electricity consumed in float charging and air conditioning = reduced carbon emissions

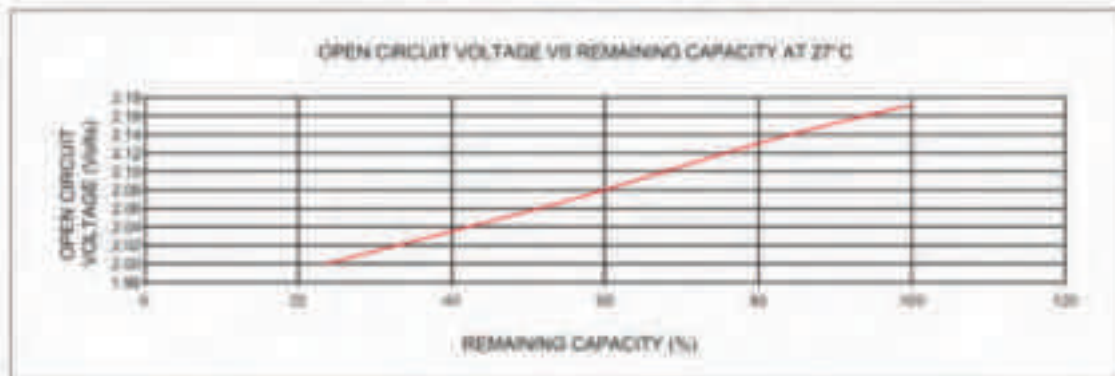
Discharge Curves at Different Rates of Discharge



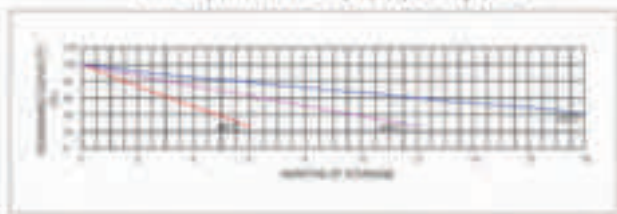
Constant Voltage Charging Curve



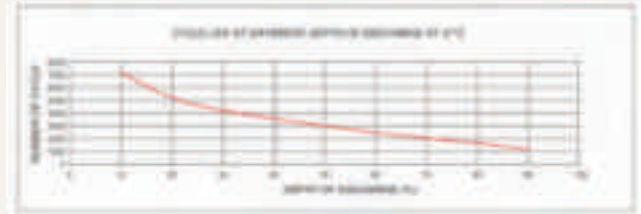
Self-Discharge Characteristics



Relationship Between Remaining Capacity & Storage period



RELATIONSHIP BETWEEN OPEN CIRCUIT VOLTAGE & REMAINING CAPACITY AT 27°C



Proudly manufactured in India by:

Microtex Energy P Ltd.

42 & 43 , 2nd Main, 2nd Phase, Peenya Industrial Area, Bengaluru - 560 058, India

Phone : +91 9686 448899 Email : info@microtex.in

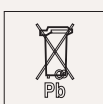
www.microtexindia.com



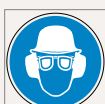
Read instruction Manual



Completely recyclable



Hand over to authorised MOEF recyclers



Protect eyes from electrolyte



Electrical Hazard

Any data, description or specifications mentioned in this catalogue are subject to revision by Microtex without notice. While such information is believed to be accurate as mentioned in this catalogue, Microtex makes no warranty and hereby disclaims all warranties, express or implied, with regard to the accuracy or completeness of such information. Further, because the product(s) mentioned in this catalogue may be used under conditions beyond its control, Microtex hereby disclaims all warranties, express or implied, concerning the fitness of suitability of such product(s) for any particular use or any specific applications or arising from any course of dealing or usage of trade. The user is solely responsible for determining the suitability of the product(s) mentioned in this catalogue, users intended and in users specific applications.