



### General Features

- Easy access for installation and maintenance
- Positive and negative plates inlead-calcium tin alloy for minimum gassing
- New grid design with thick positive plate ensures a long life
- Terminals with brass inserts for maximum conductivity
- Terminal covers are fully insulated for safety with special access hole for voltage readings to be made safely and easily
- 6 month shelf life at 20°C
- Flame retardant construction to meet UI94 V-O, 28% LOI (optional)

The new MTI System's GT-F range of valve-regulated lead acid batteries has been designed specifically for use in applications which demand the highest levels of security and reliability. With proven compliance to the most rigorous international standards, MTI System's is recognised worldwide as the premium battery for Telecom/IT applications. MTI System's GT-F delivers superior performance while occupying less space than conventional power batteries.

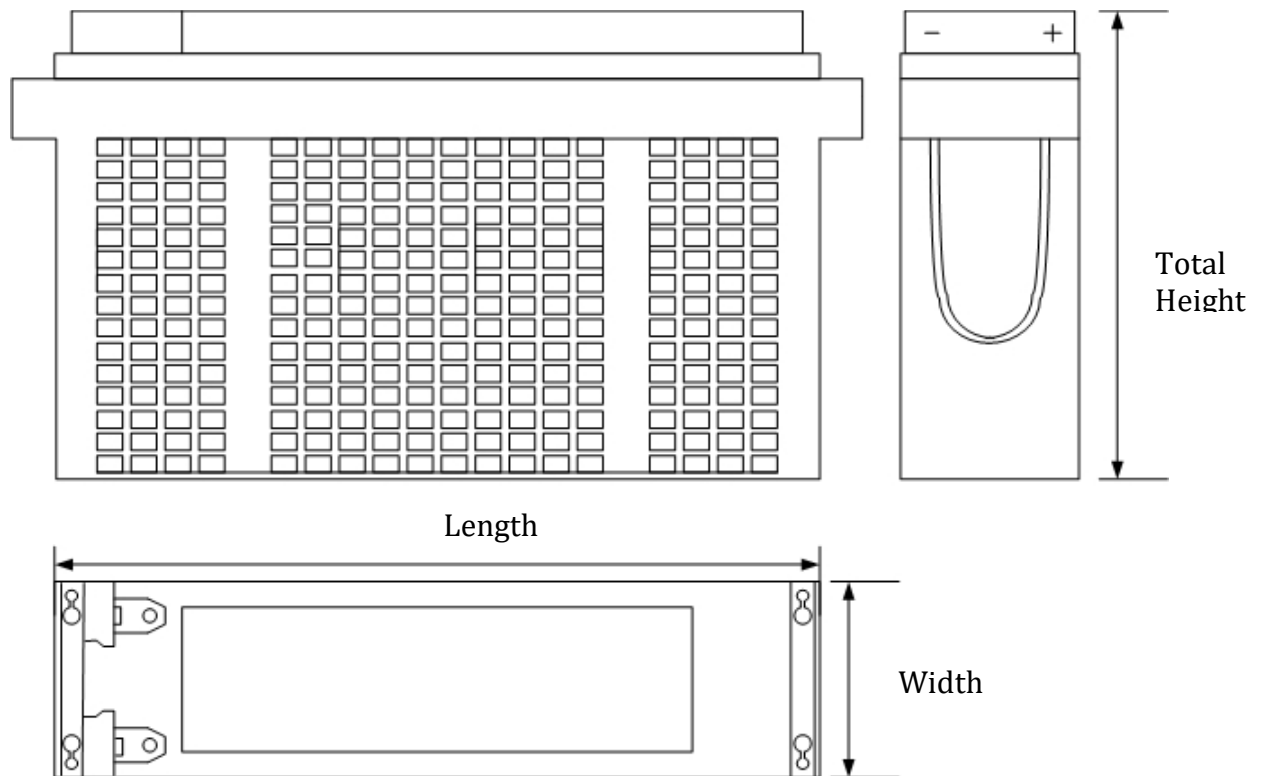
In addition, the MTI System's GT-F front terminal monobloc's compact design and standard footprint, suitable for 19", 23" and ETSI racking, gives users the benefit of increased energy density. With all electrical connections at the front, installation and inspection are simpler and quicker.

### Applications

<b>Telecommunications:</b>	PCS	Cellular	Broadband
<b>Electric Utility:</b>	Communication	Switchgear	
<b>UPS</b>			

### Product Information

Cell Type	Nominal Voltage	Capacity (C10 at 1.8V)	Capacity (C3 at 1.8V)	Dimensions (mm)			Weight (kg)
				Length	Width	Total Height	
GT12-50F	12	50	38	390	105	227	21.5
GT12-85F	12	85	73	395	105	270	31
GT12-100F	12	100	75	558	125	227	39
GT12-105F	12	105	78	511	110	238	36
GT12-125F	12	125	95	558	125	270	49
GT12-155F	12	155	117	558	125	283	54
GT12-170F	12	170	145	558	125	310	59
GT12-180NDF	12	180	149	558	125	316	60
GT12-190NDF	12	190	158	558	316	125	60.5
GT12-100NDT-S	12	100	75	395	108	287	31



### **Operational Data**

Design Life – Up to 10 years, 6 years on most models

Cycles – greater than 1000

Self-discharge – 3% per month (25°C)

Operational Temperature – -15°C to 45°C

### Discharge Tables - Constant Current (A, 25°C)

#### **End Voltage - 9.6V**

Cell Type	Time								
	5 min	15 min	30 min	1 Hr	3 Hr	5 Hr	8 Hr	10 Hr	20 Hr
GT12-50F	175	87.5	55	32.5	14	10	6.6	5.5	2.85
GT12-85F	321	164	97.8	58.7	24.8	15.9	11	8.94	4.47
GT12-100F	350	175	110	65	28	20	13	11	5.7
GT12-105F	367	184	115	68	29	21	13.6	11.5	5.9
GT12-125F	437	218	137	81.2	35	25	16.5	13.7	7.1
GT12-155F	512	263	158	93	42.7	28.2	19.4	16	8.2
GT12-170F	552	285	204	120	52.1	32.2	22.1	18.1	9.46
GT12-180NDF	504	316	208	125	51.3	34.4	23	18.5	9.95
GT12-190NDF	532	334	220	132	54.2	36.3	24.3	19.5	10.5

#### **End Voltage – 10.2V**

Cell Type	Time								
	5 min	15 min	30 min	1 Hr	3 Hr	5 HR	8 Hr	10 Hr	20 Hr
GT12-50F	149	81	50.5	31	13	9.5	6.4	5.3	2.75
GT12-85F	283	152	95.5	56.4	24.7	15.7	10.8	8.74	4.47
GT12-100F	298	162	101	62	26	19	12.8	10.7	5.5
GT12-105F	312	170	106	65	27.3	19.9	13.4	11.2	5.7
GT12-125F	372	202	126	77.5	32.5	23.7	16	13.3	6.87
GT12-155F	451	242	153	92	42	27.8	19.1	15.6	7.9
GT12-170F	525	269	197	127	51	31.9	21.7	17.7	9.40
GT12-180NDF	455	305	202	123	50.9	34.1	22.7	18.3	9.76
GT12-190NDF	480	322	213	130	53.7	36	24	19.3	10.3

#### **End Voltage – 10.5V**

Cell Type	Time								
	5 min	15 min	30 min	1 Hr	3 Hr	5 HR	8 Hr	10 Hr	20 Hr
GT12-50F	133	75	49	30	12.5	9.2	6.25	5.2	2.6
GT12-85F	255	144	93.2	54.9	24.4	15.7	10.7	8.63	4.37
GT12-100F	266	150	98	60	25	18.5	12.5	10.5	5.3
GT12-105F	266	150	98	60	25	18.5	12.5	10.5	5.3
GT12-125F	332	187	122	75	31.2	23.1	15.6	13.1	6.6
GT12-155F	407	229	149	88	41.6	27.8	18.7	15.5	7.8
GT12-170F	503	260	190	125	50	31.7	21.5	17.3	9.32
GT12-180NDF	432	292	194	122	50.6	33.9	22.5	18.1	9.66
GT12-190NDF	456	308	205	129	53.4	35.8	23.8	19.1	10.2

### Discharge Tables - Constant Current (A, 25°C)

#### **End Voltage – 10.8V**

Cell Type	Time								
	5 min	15 min	30 min	1 Hr	3 Hr	5 HR	8 Hr	10 Hr	20 Hr
GT12-50F	120	71	47.5	27.5	12	9	6	5	2.5
GT12-85F	230	136	90.9	52.9	24.3	15.6	10.6	8.5	4.37
GT12-100F	240	142	95	55	24	18	12	10	5
GT12-105F	252	149	99	57	25	18.9	12.6	10.5	5.2
GT12-125F	300	177	118	68.7	30	22.5	12.5	12	6.2
GT12-155F	367	217	145	84	41.3	27.5	18.7	15.3	7.7
GT12-170F	461	245	181	120	48.3	31.3	20.9	17	9.15
GT12-180NDF	388	268	18	118	49.8	33.3	22.4	18	9.66
GT12-190NDF	410	283	193	125	52.6	35.2	23.6	19	10.2

#### **End Voltage - 11.1V**

Cell Type	Time								
	5 min	15 min	30 min	1 Hr	3 Hr	5 HR	8 Hr	10 Hr	20 Hr
GT12-50F	106	66.5	45	25	11.5	8.8	5.7	4.8	2.3
GT12-85F	202	127	48.3	48.3	21.6	14.6	10.1	8.32	4.16
GT12-100F	212	133	90	50	23	17.6	11.5	9.6	4.7
GT12-105F	222	139	94	52	24.1	18.4	12.1	10	4.9
GT12-125F	265	166	112	62.5	28.7	22	14.3	12	5.8
GT12-155F	324	202	138	77	36.7	26	17.9	14.7	7.6
GT12-170F	406	218	163	111	47.5	29.9	20.8	16.8	8.79
GT12-180NDF	336	239	170	113	48	32.1	21.8	17.8	9.57
GT12-190NDF	355	252	179	119	50.7	33.9	23	18.8	10.1

### Standards

Compliant with international standard IEC 896/2, BS 6290 Part 4 and CEI en 60896.2

CSA / UL registered product

Manufactured in ISO9001 approved facilities

Classified as long life according to Eurobat Guide 1999

Approved as non-hazardous cargo for land, sea and air transportation