



### General Features

- Thermally welded cases to cover bond eliminates leakage
- Absorbent Glass Mat (AGM) technology for up to 99% recombination efficiency
- Computer generated grid design optimized for high power density
- UL recognized component
- Multicell design for economy of installation and maintenance
- Can be used in any orientation
- Low calcium alloy grid for minimum gassing and easy recycling
- Flame retardant construction to meet UI94 V-O, 28% LOI (optional)

The new MTI System's GT-HR Range of valve-regulated lead acid batteries has been designed to offer a superior solution for the information technology and uninterruptible power supply markets. The GT-HR is the ideal source of power to protect your vital systems.

In critical standby power applications, maximum battery life is essential. MTI Systems' brand **HIGH RATE** batteries have been specifically designed for maximum life to comply with rigorous industry standards. Computer modeling, component selection and state of the art automated manufacturing techniques deliver the best performance in the industry. Performance has been validated through extensive life-cycle testing as well as years or in-service life in UPS applications.

### Applications

Alarm System

Cable Television

Control Equipment

Security System

Communication Equipment

UPS

Medical Equipment

Emergency Power



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

Cell Type	End Voltage	Time									
		5 min	10min	15min	30min	1 Hr	2 Hr	3 Hr	5 HR	10 Hr	20 Hr
GT 6-5HR	5.10	22.1	14.6	11.2	5.99	3.88	1.99	1.16	0.82	.46	.26
	5.25	20.7	14.1	10.8	5.68	3.7	1.93	1.13	0.8	.46	.26
	5.40	19.3	13.4	9.95	5.27	3.47	1.88	1.08	0.74	.44	.25
	5.55	17.9	12.7	9.46	5.12	3.3	1.8	1.02	0.71	.42	.24
GT 12-5HR	10.2	22.1	14.6	11.2	5.99	3.88	1.99	1.16	0.82	.46	.26
	10.5	20.7	14.1	10.8	5.68	3.7	1.93	1.13	0.8	.46	.26
	10.8	19.3	13.4	9.95	5.27	3.47	1.88	1.08	0.74	.44	.25
	11.1	17.9	12.7	9.46	5.12	3.3	1.8	1.02	0.71	.42	.24
GT 12-7HR	10.2	28.3	19	14.6	8.47	5.5	2.92	1.93	1.34	.78	.4
	10.5	27.8	18.4	14.2	8.05	5.23	2.8	1.87	1.31	.76	.4
	10.8	27.3	17.8	13.8	7.65	4.99	2.68	1.81	1.28	.74	.4
	11.1	24.3	17	12.5	7.08	4.67	2.58	1.75	1.2	.72	.39
GT 12-9HR	10.2	35.7	22.9	17.7	10	6.5	3.6	2.23	1.57	.87	.45
	10.5	33.8	22.2	17	9.5	6.2	3.5	2.19	1.53	.86	.45
	10.8	30.2	21.1	15.6	8.8	5.8	3.4	2.09	1.44	.85	.44
	11.1	27	20.1	14.3	8.16	5.43	3.3	2.03	1.4	.83	.43

Cell Type	End Voltage	Time									
		5 min	10min	15min	30min	1 Hr	2 Hr	3 Hr	5 HR	10 Hr	20 Hr
GT 12-12HR	10.2	49.7	34.3	24	13.2	8.55	4.53	3.17	2.21	1.25	0.67
	10.5	47.1	30.2	23.3	12.5	8.15	4.41	3.08	2.16	1.23	0.66
	10.8	44.6	26.6	22.6	11.8	7.76	4.28	2.99	2.11	1.21	0.65
	11.1	41	27.9	20.6	11	7.27	4.15	2.86	1.8	1.19	0.64
GT 12-18HR	10.2	67	43	32.2	18.6	12.4	6.28	4.41	3.08	1.71	0.9
	10.5	63.5	41.8	31.5	17.8	11.7	5.97	4.28	3.01	1.68	0.9
	10.8	60.2	40.6	3.8	17	11	5.77	4.15	2.94	1.65	0.9
	11.1	55.9	38.3	28.9	16	10.3	5.65	3.98	2.75	1.6	0.88
GT 12-26HR	10.2	93	55.9	42.6	25.2	17.8	9.13	7.66	4.24	2.36	1.3
	10.5	87	54.1	40.8	23.8	17.1	8.93	7.47	4.21	2.35	1.3
	10.8	81.9	52.3	39.1	22.5	16.4	8.82	7.28	4.18	2.34	1.3
	11.1	76	48.8	32.3	21.1	16.2	8.72	7.08	3.88	2.22	1.28
GT 12-33HR	10.2	102	72.9	56.9	35.4	21	12.3	8.93	5.87	3.46	1.8
	10.5	92.2	67.7	54.1	34.4	20.7	11.6	8.71	5.77	3.3	1.75
	10.8	93.5	62.9	51.4	33.4	20.4	11.1	8.5	5.67	3.15	1.7
	11.1	60	48.5	41.2	30.9	19.1	10.7	8.19	5.35	2.94	1.52

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

Cell Type	End Voltage	Time									
		5 min	10min	15min	30min	1 Hr	2 Hr	3 Hr	5 HR	10 Hr	24 Hr
GT 12-40HR	10.2	119	86.7	67.6	44.4	26.4	15.2	10.8	7.32	4	1.3
	10.5	109	80.6	64.3	42	25.6	14.4	10.6	7.16	3.78	1.74
	10.8	99.1	74.9	61.2	39.7	24.8	13.8	10.4	7	3.57	1.57
	11.1	80	65	55	36.8	23.5	13.3	9.8	6.4	3.45	1.5
GT 12-50HR	10.2	161	114	90.4	56.2	32.7	18.1	14.1	9.3	5.61	2.5
	10.5	146	107	85.9	24.6	32.4	17.6	13.8	9.1	6.3	2.4
	10.8	132	100	81.6	53	32.1	16.6	13.5	8.9	5	2.3
	11.1	95.1	77.1	65.3	48.8	30.1	15.8	12.9	8.5	4.7	2.24
GT 12-55HR	10.2	169	119	95.7	60.8	32.7	19	14.9	9.3	5.61	2.5
	10.5	153	112	90.2	57.3	32.4	18.5	14.2	9.1	5.3	2.4
	10.8	138	105	85	54	32.1	17.4	13.5	8.9	5	2.3
	11.1	99.8	80.8	68.3	50.8	30	16.6	12.9	8.5	4.7	2.24
GT 12-75HR	10.2	208	149	116	78.7	46.2	28.5	18.2	12.8	7.67	3.35
	10.5	189	139	111	73.5	44.8	26.9	18.2	12.5	6.83	3.18
	10.8	171	129	106	68.6	43.4	25.8	18.2	12.2	6.08	2.98
	11.1	124	100	88	64.4	41.3	24.8	17.1	11.2	5.75	2.73
GT 12-90HR	10.2	278	195	155	101	59.4	35.9	23.8	16.5	9.41	4.48
	10.5	246	180	145	94.5	57.6	34	23.6	16.1	9.1	4.18
	10.8	217	166	135	88.2	55.8	32.5	23.4	15.7	8.8	4.1
	11.1	180	142	123	82.8	53.1	32.1	22	14.4	8.5	3.98
GT 12-100HR	10.2	307	217	172	112	66.1	36.1	27	18.3	10.4	4.8
	10.5	273	200	161	105	64	35.3	26.5	17.9	10.2	4.5
	10.8	242	184	150	98	62	34.1	26	17.5	10	4.2
	11.1	200	158	137	92	59	33.2	24	16	9.4	4.1

Cell Type	End Voltage	Time									
		5 min	15min	30min	1 Hr	2 Hr	3 Hr	5 HR	10 Hr	20 Hr	24 Hr
GT 12-100M	10.2	298	162	101	62	44.5	26	19	10.7	5.5	4.8
	10.5	266	150	98	60	42	25	18.5	10.5	5.3	4.6
	10.8	240	142	95	55	40	24	18	10	5	4.5
	11.1	212	133	90	50	37.5	23	17.6	9.6	4.7	4.2
GT 12-200M	10.2	598	324	202	124	89	52	38	21.5	11	9.7
	10.5	532	300	196	120	84	50	37	21	11.5	10.6
	10.8	480	284	190	110	80	48	36	20	10	9
	11.1	424	266	180	100	75	46	35.2	19.2	9.5	8.5

### Discharge Tables - Power (Watts/Cell, 25°C)

Cell Type	End Voltage	Time									
		5 min	10min	15min	30min	45min	1 Hr	2 Hr	3 Hr	5 HR	10 Hr
GT 6-5HR	1.67	40.6	27.6	21.3	12.9	8.18	6.73	4.03	2.56	1.85	0.83
	1.70	39.7	27	20.8	12.6	8	6.58	3.93	2.51	1.81	0.81
	1.75	38.4	26.8	20.5	12	7.72	6.49	3.84	2.48	1.76	0.78
	1.8	36.6	26	19.2	11.4	7.41	6.11	3.7	2.4	1.7	0.76
GT 12-5HR	1.67	40.6	27.6	21.3	12.9	8.18	6.73	4.03	2.56	1.85	0.83
	1.70	39.7	27	20.8	12.6	8	6.58	3.93	2.51	1.81	0.81
	1.75	38.4	26.8	20.5	12	7.72	6.49	3.84	2.48	1.76	0.78
	1.8	36.6	26	19.2	11.4	7.41	6.11	3.7	2.4	1.71	0.76
GT 12-7HR	1.67	55.8	38	29.3	17.2	12.2	10.7	6.03	4.41	2.88	1.28
	1.70	54.4	37.1	28.6	16.8	11.9	10.4	5.88	4.3	2.81	1.25
	1.75	52.7	36.8	28.3	16.1	11.5	10.3	5.72	4.16	2.74	1.22
	1.8	50.1	35.7	26.3	14.8	11.1	10.1	5.52	4.02	2.64	1.18
GT 12-9HR	1.67	67.9	44.7	34.5	19.5	15.9	12	7.18	4.52	3.22	1.43
	1.70	66.2	43.6	33.7	19	14.2	11.7	7	4.41	3.14	1.4
	1.75	64.3	43.3	33.3	18.5	13.7	11.5	6.82	4.4	3.12	1.38
	1.8	59	42	31	17.5	13.2	10.8	6.58	4.22	2.97	1.32
GT 12-12HR	1.67	85.3	56.3	43.5	24.2	18.3	15.5	9.04	6.6	4.32	1.92
	1.70	93.2	54.9	42.4	23.6	17.9	15.1	8.82	6.44	4.22	1.86
	1.75	81.1	54.6	42	22.9	17.3	14.5	8.6	6.25	4.11	1.83
	1.8	76.4	52.9	39.1	22.1	16.6	13.7	8.3	6.03	3.96	1.76
GT 12-18HR	1.67	122	82.5	62.6	36.7	28.9	22.4	14.2	8.75	6.45	2.87
	1.70	119	80.5	61.1	35.8	28.2	21.9	13.9	8.54	6.3	2.8
	1.75	111	78.6	60.6	34.9	27.3	21.6	13.6	8.43	6.24	2.77
	1.8	104	71.6	57.7	33.8	26.4	20.5	13.2	8.18	6	2.67
GT 12-26HR	1.67	176	116	90.4	50	35.1	27.6	18	13.2	8.65	3.85
	1.70	172	113	88.2	48.8	34.2	26.9	17.6	12.9	8.44	3.75
	1.75	158	111	87.2	48.3	34.1	26.8	17.2	12.5	8.21	3.65
	1.8	135	100	84.5	47.3	33.6	26.3	15.6	12.1	7.92	3.52

Cell Type	End Voltage	Time									
		5 min	10min	15min	30min	1 Hr	2 Hr	3 Hr	5 HR	10 Hr	24 Hr
GT 12-33HR	1.67	260	180	140	86	50	33	19	12.3	7.1	3.15
	1.70	256	175	138	85	50	33	18.5	11.7	6.7	2.98
	1.75	250	170	135	84	49	32	18	11.5	6.5	2.95
	1.8	235	155	120	80	46	30	17	10.8	6.05	2.73
GT 12-40HR	1.67	270	185	150	88	52	34	20.5	13.5	7.62	3.41
	1.70	256	155	125	83	46.5	32.3	19.4	11.7	7.25	3.25
	1.75	250	145	118	78	46.2	31.6	19.1	11.5	7.14	3.2
	1.8	235	138	110	75	42.9	31	18.5	10.8	6.72	3.05

### Discharge Tables - Power (Watts/Cell, 25°C)

Cell Type	End Voltage	Time									
		5 min	10min	15min	30min	1 Hr	2 Hr	3 Hr	5 HR	10 Hr	24 Hr
GT 12-50HR	1.67	280	210	170	107	66	38	27	17.8	10.5	4.5
	1.70	270	204	165	105	65	36	26.6	17.5	10.4	4.4
	1.75	250	190	155	100	62	34.5	26.2	17.1	9.8	4.3
	1.8	240	185	150	95	60	33	25.3	16.5	9.5	4.25
GT 12-55HR	1.67	370	255	203	125	74	43	29	19.2	10.8	4.85
	1.70	360	251	200	123	72	41.5	28.7	19	10.6	4.8
	1.75	335	240	194	120	70	40	28.1	18.7	10.5	4.73
	1.8	320	233	188	117	68	39	27.7	18.3	10.4	4.7
GT 12-75HR	1.67	524	361	282	176	104	54	35.7	23.5	13.2	6.1
	1.70	512	356	279	175	103	52	35.1	23.1	13	6.02
	1.75	484	342	270	171	102	51	34.8	22.9	12.9	5.95
	1.8	463	326	260	165	100	48.5	34.2	22.7	12.8	5.84
GT 12-90HR	1.67	608	423	330	205	120	69	47.7	30.9	17.6	7.8
	1.70	591	415	325	203	119	68	47.1	30.5	17.4	7.72
	1.75	555	397	314	199	118	67	46.5	30.1	17.2	7.66
	1.8	510	375	300	194	116	65	45.8	29.7	17	7.63
GT 12-100HR	1.67	714	505	391	237	136	74	52.6	34.8	19.6	8.81
	1.70	700	496	386	235	135	72.7	52	34.3	19.3	8.7
	1.75	662	475	372	229	133	69	51.3	33.9	19.1	8.6
	1.8	619	451	358	220	130	66.7	50.6	33.4	18.8	8.58

Cell Type	End Voltage	Time									
		5 min	15min	30min	1 Hr	2 Hr	3 Hr	5 HR	8 Hr	10 Hr	24 Hr
GT 12-100M	1.67	531	276	174	109	71	45.5	33.8	23	19.2	9
	1.70	50	276	172	108	69	44.8	33.4	22.5	19	9
	1.75	474	267	171	107	68	44.5	32.9	22.2	18.7	9
	1.8	432	256	170	100	67	43.2	32.3	21.7	18	8.94
GT 12-200M	1.67	1063	553	347	173	142	90.7	67.4	46	38.4	18
	1.70	1017	551	344	215	139	89.7	66.7	45	38	18
	1.75	947	534	343	214	137	89	65.7	44.4	37.4	18
	1.8	864	511	342	198	135	86.5	64.8	43.4	36	17.9

### Standards

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

Classified as long life according to Eurobat Guide 1999

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