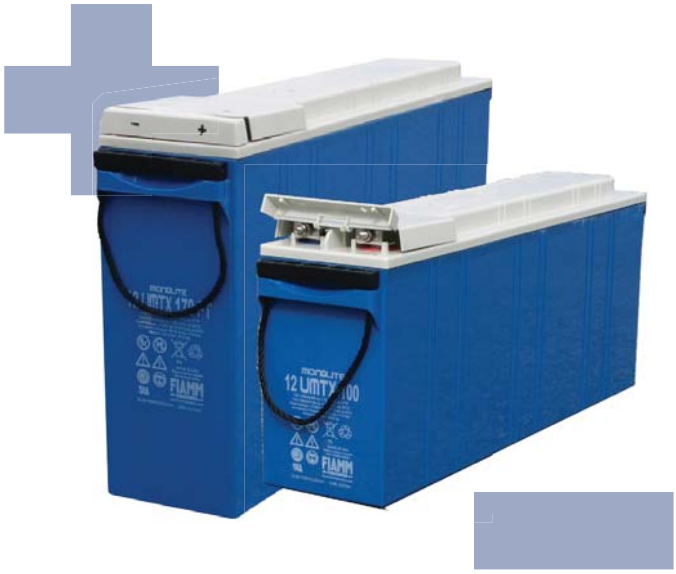
FIAMM

Industrial Batteries

MONOLITE

UMTX series

Standby Products



FIAMM's **UMTX** range of valve regulated lead-acid batteries is specifically designed to meet and exceed various industry specifications, including Telecommunications, Electrical Utilities, and high reliability UPS systems. This "purpose built" design philosophy, coupled with industry-leading manufacturing technology ensures product consistency and reliable performance that is suited to:

- 10 + years Design Life
- Superior Energy Density
- Excellent High-Rate Performance
- Easy Handling and Installation
- Safe Operation and Ease of Testing
- No Water Addition Needed

Starting with proven technology and manufacturing methodology, the **UMTX** range is optimized to provide more capacity in the same space. The front terminal design of the **UMTX FT** guarantees easy access for installation and ordinary maintenance of your equipment allowing at the same time for the highest energy density configuration. FIAMM has a program of continuous improvement investing in manufacturing processes, equipment and technology. FIAMM's Standby Battery factories are ISO 9001-2000 certified. Our continuous investment in battery technology is reflected by means of premium products that are of the highest quality. **UMTX** valve regulated lead acid batteries are the ideal energy source for many different standby applications.

Technical Features

Plates and Grids: extra-thick plates with grids cast from high purity lead calcium tin alloy to ensure long and reliable life and low gas emission.
Separators: micro porous absorbed glass mat facilitates recombination and immobilizes the electrolyte.
Internal Connections: heavy-duty internal straps and through-the-partition cell connections minimize internal resistance for increased enery density**.**
Terminals: threaded female post terminals with brass inserts provide for high conductivity and maximum torque retention.
Post Seals: state of the art post seals prevent seepage over a wide temperature range.
Safety Valve: each cell has its own one-way valve that opens at 5 psi and closes at 3 psi to allow excess gas to escape in case of over charging.
Flame Arrestor: lets excess gas out while preventing any errant spark or flame from entering the battery.
Container and Cover: made from thick walled flame retardant ABS plastic and designed for unsurpassed mechanical strength , the cases and covers have an LOI greater than 28% and meet the flame retardancy standards of UL 94 V-0 .
Handles: either tough rope handles or handles integrated into the battery cover, to aid in handling, installing and removing the batteries.
Remote Venting System: an optional Remote Venting System (RVS) is available for front terminal batteries in those applications requiring that the small amount of gasses generated during normal operation be vented to an external location.

Applicable Standards

Telcordia (Bellcore) SR-4228
Telcordia (Bellcore) TR-NWT-001200
Telcordia (Bellcore) TR-NWT-000909
UL Recognized
UL 94 Class V-0
UL 1778

Product Features

- Safe
- Versatile
- Reliable

Rev. 010410

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FIAMM UMTX range

BATTERY TYPE	NOMINAL VOLTAGE (V)	CAPACITY (Ah) at 77°F	DIMENSIONS						WEIGHT		Terminal Type
		8 hrs to 1.75 Vpc	Length		Width		Height				
			in	mm	in	mm	in	mm	lbs	kg	
12 UMTX 100 FT	12	100	21.97	558	4.96	126	9.06	230	83.6	38	Female M6
12 UMTX 100/19 FT*	12	100	15.55	395	4.25	108	10.83	275	74.8	34	Female M6
12 UMTX 110 FT	12	110	21.97	558	4.96	126	9.06	230	90.39	41	Female M6
12 UMTX 140 FT	12	140	21.97	558	4.96	126	10.67	271	110	50	Female M6
12 UMTX 145 FT	12	145	16.55	420.5	6.81	173	10.03	255	114.4	52	Female M6
12 UMTX 155 FT	12	155	21.97	558	4.96	126	12.64	321	129.8	59	Female M6
12 UMTX 170 FT	12	170	21.97	558	4.96	126	12.64	321	132	60	Female M6
12 UMTX 180 FT	12	180	21.97	558	4.96	126	12.64	321	134	61	Female M6

* Does not use P1039-L

Torque Settings

- Female M6: 44-62 inlbs (5-7 Nm)

Front Terminal Adapter

- Part Number: P1039 - L
- Terminal Type: Male M6

Electrical Characteristics

- FLOAT VOLTAGE CHARGE AT 77°F: 2.26 Vpc
- TEMPERATURE COMPENSATION: -1.38 mV/°F
- SELF-DISCHARGE AT 77°F: < 2% / month

BATTERY TYPE	Constant Current Discharge Rates Amperes to 1.67 Vpc at 77°F (25°C)									
	MINUTES				HOURS					
	10	15	30	60	2	3	5	8	10	20
12 UMTX 100 FT	234.00	183.10	111.00	64.86	37.84	27.40	18.30	12.70	10.60	5.80
12 UMTX 100/19 FT	236.00	183.80	112.00	65.50	37.10	26.90	17.70	12.20	10.10	5.60
12 UMTX 110 FT	278.00	216.70	128.00	72.30	43.90	31.90	21.00	14.20	11.90	6.70
12 UMTX 140 FT	318.00	244.30	151.55	88.71	52.31	38.37	25.69	17.70	14.90	8.45
12 UMTX 145 FT	283.70	234.40	156.80	98.00	57.88	41.54	27.23	18.47	15.34	8.53
12 UMTX 155 FT	292.00	242.00	161.44	100.60	58.70	42.80	28.80	19.80	16.40	8.75
12 UMTX 170 FT	402.00	325.00	209.00	123.00	72.00	51.70	33.20	22.00	18.20	9.80
12 UMTX 180 FT	436.00	340.54	212.15	127.28	73.94	53.03	34.35	22.76	18.82	10.14

BATTERY TYPE	Constant Current Discharge Rates Amperes to 1.75 Vpc at 77°F (25°C)									
	MINUTES				HOURS					
	10	15	30	60	2	3	5	8	10	20
12 UMTX 100 FT	212.00	182.25	105.00	62.50	37.10	26.90	18.00	12.50	10.40	5.70
12 UMTX 100/19 FT	215.00	170.30	107.20	63.30	36.50	26.30	17.50	12.00	10.00	5.50
12 UMTX 110 FT	250.00	199.30	123.00	71.60	43.30	31.50	20.80	14.00	11.70	6.50
12 UMTX 140 FT	290.45	229.30	144.10	85.78	51.42	37.91	25.38	17.50	14.70	8.28
12 UMTX 145 FT	267.60	222.90	148.80	94.00	56.46	40.70	26.70	18.13	15.06	8.45
12 UMTX 155 FT	276.30	229.40	153.60	96.90	57.50	42.00	28.20	19.40	16.00	8.55
12 UMTX 170 FT	355.00	296.80	199.00	119.00	70.30	50.30	32.40	21.50	17.70	9.50
12 UMTX 180 FT	394.00	311.00	202.00	123.15	72.20	51.60	33.53	22.25	18.31	9.83

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Rev, 010410

BATTERY TYPE	Constant Current Discharge Rates Amperes to 1.80 Vpc at 77°F (25°C)									
	MINUTES				HOURS					
	10	15	30	60	2	3	5	8	10	20
12 UMTX 100 FT	196.00	158.40	101.00	60.90	36.40	26.70	17.80	12.30	10.30	5.60
12 UMTX 100/19 FT	197.24	159.50	101.57	61.10	35.40	25.70	17.20	11.80	9.90	5.45
12 UMTX 110 FT	230.00	185.30	119.00	70.80	43.00	31.20	20.60	13.90	11.60	6.40
12 UMTX 140 FT	268.27	215.20	138.60	83.58	50.46	37.45	25.12	17.32	14.59	8.17
12 UMTX 145 FT	259.80	217.60	145.90	91.50	55.25	39.98	26.50	18.00	14.95	8.40
12 UMTX 155 FT	268.20	224.10	150.60	94.40	56.40	41.10	27.50	19.10	15.80	8.45
12 UMTX 170 FT	330.00	277.60	187.00	116.00	67.90	48.90	31.70	21.10	17.40	9.40
12 UMTX 180 FT	368.00	290.88	189.81	118.00	69.73	50.16	32.80	21.83	18.00	9.72

BATTERY TYPE	Constant Power Discharge Rates Watts per cell to 1.67 Vpc at 77°F (25°C)									
	MINUTES				HOURS					
	10	15	30	60	2	3	5	8	10	20
12 UMTX 100 FT	421.43	333.33	205.11	121.32	71.52	52.03	34.94	24.34	20.34	10.90
12 UMTX 100/19 FT	425.03	334.61	206.95	122.52	70.20	51.08	33.79	23.38	19.38	10.53
12 UMTX 110 FT	500.67	394.50	236.52	136.00	82.98	60.70	40.20	27.21	22.83	12.93
12 UMTX 140 FT	572.70	444.70	280.00	165.90	98.90	72.90	49.00	33.90	28.60	15.90
12 UMTX 145 FT	510.93	426.73	289.74	183.31	109.40	78.88	51.99	35.40	29.43	16.04
12 UMTX 155 FT	525.88	440.56	298.31	187.17	110.95	81.28	54.98	37.94	31.47	16.45
12 UMTX 170 FT	723.99	591.66	386.19	230.07	136.09	98.18	63.38	42.16	34.92	18.42
12 UMTX 180 FT	785.22	619.95	392.01	238.08	139.76	100.70	65.58	43.62	36.11	19.57

BATTERY TYPE	Constant Power Discharge Rates Watts per cell to 1.75 Vpc at 77°F (25°C)									
	MINUTES				HOURS					
	10	15	30	60	2	3	5	8	10	20
12 UMTX 100 FT	391.26	344.75	197.61	118.69	70.97	51.65	34.67	24.19	20.15	10.80
12 UMTX 100/19 FT	396.80	316.93	201.75	120.21	69.82	50.50	33.65	23.22	19.32	10.44
12 UMTX 110 FT	461.40	370.90	231.49	135.97	82.83	60.62	40.11	27.14	22.65	12.62
12 UMTX 140 FT	536.10	426.70	271.20	162.90	98.40	72.80	48.90	33.80	28.40	15.70
12 UMTX 145 FT	493.88	414.82	280.04	178.51	108.01	78.14	51.42	35.08	29.10	16.01
12 UMTX 155 FT	509.94	426.91	289.08	184.01	110.00	80.64	54.31	37.54	30.91	16.20
12 UMTX 170 FT	655.18	552.34	374.52	225.98	134.48	96.58	62.40	41.60	34.20	18.01
12 UMTX 180 FT	727.16	578.77	380.16	233.86	138.12	99.07	64.58	43.05	35.45	19.08

BATTERY TYPE	Constant Power Discharge Rates Watts per cell to 1.80 Vpc at 77°F (25°C)									
	MINUTES				HOURS					
	10	15	30	60	2	3	5	8	10	20
12 UMTX 100 FT	367.60	299.69	192.91	117.17	70.47	51.85	34.66	24.00	20.11	10.73
12 UMTX 100/19 FT	369.92	301.77	194.00	117.56	68.53	49.91	33.49	23.02	19.32	10.44
12 UMTX 110 FT	431.37	350.59	227.29	135.22	82.40	60.59	40.11	27.12	22.64	12.52
12 UMTX 140 FT	503.10	407.20	264.70	160.80	97.70	72.70	48.90	33.80	28.40	15.70
12 UMTX 145 FT	487.26	411.70	278.67	176.05	106.96	77.64	51.60	35.12	29.18	16.00
12 UMTX 155 FT	503.01	424.00	287.65	181.63	109.19	79.82	53.54	37.26	30.84	16.19
12 UMTX 170 FT	618.92	525.22	357.17	223.18	131.45	94.96	61.72	41.17	33.96	18.00
12 UMTX 180 FT	690.18	550.34	362.54	227.03	135.00	97.41	63.86	42.59	35.14	19.02

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