



Applications and Key Benefits

- Designed for high energy density front terminal Telecom installations and other low rate discharge applications
Ideal for:
 - Telecom BTS - wireless application
 - Outdoor wireline cabinets
 - Broadband, microwave repeater and fiber optic regeneration sites
 - Extended backup solutions in utilities switchgear and industrial applications
 - Use in areas with stable or unstable on-grid power supply
- Up to 15 years design life in float operation in temperature controlled environments
- Low rate discharge 1 to 20 hours
- Front terminal design for reduced headspace, higher energy density and compact battery layout
- Front terminal design reduces installation time and facilitates maintenance
- 19 or 23 inch and ETSI power racks / cabinets
- AGM gas recombination technology
- Minimal gassing and fit for remote venting
- Non-spillable
- Maintenance free without topping-up
- Non-hazardous for air/sea/rail/ road transportation
- 100% Recyclable

Applicable Standards

- IEC 60896 Part 21 - VRLA methods of testing
- IEC 60896 Part 22 - VRLA requirements
- Eurobat "Long Life" - 12 years and longer
- BS 6290 Part 4 - specifications for VRLA classification
- UL Recognized

FIAMM Manufacturing

- ISO 9001 Quality Management System
- ISO 14001 Environmental Management System

Technical Features

- Thick pasted plates and grids of high quality lead-tin-calcium alloy
- Electrolyte fully absorbed in glass mat AGM separators with extremely high porosity
- ABS IEC 707 FV0 and UL 94 V0 (LOI greater than 28%) flame retardant plastics
- Container and lid designed for unsurpassed mechanical strength made of thick walled plastics
- Thermally welded case-to-cover sealing avoids leakage
- Flame arrestors prevent sparks or flames from entering the battery
- Front terminals for reduced headspace, higher energy density and compact battery layout
- Threaded terminal posts with brass inserts guarantee highest conductivity, maximum torque retention and easy installation
- High integrity post seal design to prevent electrolyte leakage over a wide temperature range
- Fully insulated removable terminal covers with probe hole for safe and easy voltage measurement
- Design allows connections to the top, the front or the side
- Lids have space for end-battery connection cables
- Handles to facilitate ease of handling, installation and removal of the batteries
- Cells equipped with one-way safety valves to allow excess gas to escape when overcharging
- Remote venting system available for applications which require limited gassing to be vented externally
- < 2% self-discharge per month at 20°C allows 6 months shelf life



FIAMM UMTB range

BATTERY TYPE	NOMINAL VOLTAGE (V)	CAPACITY (Ah) at 20°C	SHORT CIRCUIT CURRENT (A)	INTERNAL RESISTANCE (mOhm)	DIMENSIONS (mm)			WEIGHT (kg)	TERMINAL TYPE*
		10 hrs to 1.80 VPC	IEC 60896-21	IEC 60896-21	Width	Depth	Height		
12 UMTB 60	12	60	1650	7.3	105	280	260	20	female M6
12 UMTB 92	12	92	2100	6.0	108	395	275	34	female M6
12 UMTB 105	12	105	2300	5.5	126	558	230	41	male M8
12 UMTB 130	12	130	2600	4.6	126	558	270	51	male M8
12 UMTB 160	12	160	3200	3.9	126	558	320	60	male M8

*optional L-brackets for front access (M6 on vertical side)

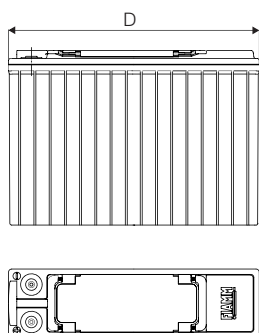
DISCHARGE DATA AT 20°C

BATTERY TYPE	NOMINAL CAPACITY 1.80 VPC 10 hrs, 20°C	DISCHARGE TIME (hours) end voltage (V)									
		1 1.67 VPC		2 1.70 VPC		3 1.75 VPC		5 1.80 VPC		10 1.80 VPC	
		W/cell	A	W/cell	A	W/cell	A	W/cell	A	W/cell	A
12 UMTB 60	60	67.6	36.1	41.1	21.8	30.1	15.7	20.6	10.6	12.7	6.0
12 UMTB 92	92	113	60.6	65.0	34.3	46.8	24.4	30.9	15.9	18.0	9.20
12 UMTB 105	105	133	71.0	75.1	39.6	54.5	28.4	36.0	18.5	20.5	10.5
12 UMTB 130	130	165	88.0	93.0	49.0	67.4	35.1	44.6	22.9	25.4	13.0
12 UMTB 160	160	202	108	114	60.3	83.0	43.2	54.9	28.2	31.2	16.0

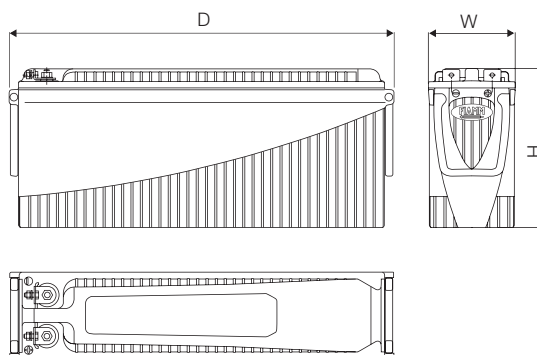
Electrical Characteristics

- + FLOAT VOLTAGE CHARGE AT 20°C:: 13.62 Volt
- + FLOAT VOLTAGE COMPENSATION WITH TEMPERATURE: -15 mV/°C for 12 Volt monobloc

Dimensions



12 UMTB 60-92



12 UMTB 105-130-160