



FHB

Enhanced Battery Technology To Reduce Your Assets and OpEx

FHB Battery Range

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FIAMM FHB RANGE HAS BEEN DESIGNED FOR DATA CENTERS APPLICATION DELIVERING THE HIGHEST PERFORMANCES WITH LONG FLOAT LIFE AT ELEVATED TEMPERATURE.

FHB SPECIAL GRID ALLOY AND SUPERIOR DESIGN GRANT 10 YEARS DESIGN LIFE AT 30°C. THE HIGH ENERGY DENSITY ALLOWS COMPACT BATTERY LAYOUT AND FOOTPRINTS, THIS REDUCING THE INSTALLATION SPACE. FHB BLOCS CAN BE INSTALLED IN CABINETS OR RACKS. FHB USES PROVEN VRLA TECHNOLOGY WITH 99% INTERNAL RECOMBINATION EFFICIENCY, IS NON-SPILLABLE AND MAINTENANCE FREE THEREFORE REQUIRES NO TOPPING UP OF ELECTROLYTE DURING ITS FLOAT- LIFE. FHB RANGE IS NON-HAZARDOUS FOR AIR/SEA/RAIL/ROAD TRANSPORTATION AND IS 100% RECYCLABLE. FHB HAS A SELF-DISCHARGE RATE LESS THAN 2% PER MONTH, GUARANTEEING LONG SHELF-LIFE.



MAIN APPLICATIONS



UPS &
DATACENTER

SPECIFICATIONS

Designed to resist corrosion and provide short recharge time thanks to superior alloy on positive grid

Low resistance VRLA AGM technology using high microporous fiberglass separators

Superior thermal stability flame retardant ABS-PC plastic comply to IEC707 and UL94 FV0 (LOI greater than 28%)

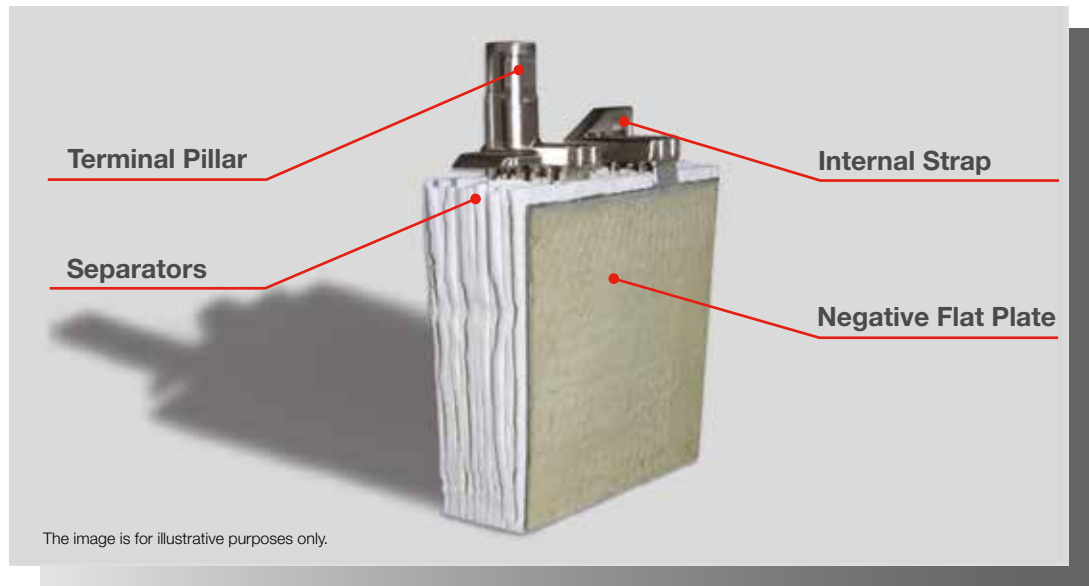
Leak resistant post seal, threaded female M8 terminals with high conductivity and maximum torque resistance

One-way relief valves to allow gas escape and prevent the ingress of oxygen.

Maximum safety is offered by a flame arrestors to prevent sparks or flames entering the battery

Installation in any orientation (excluding permanently inverted)

TECHNOLOGY



FIAMM FHB RANGE USE AGM (ABSORBED GLASS MAT) TECHNOLOGY. THE ELECTROLYTE IS ABSORBED IN FIBERGLASS SEPARATORS WITH 99% INTERNAL GAS RECOMBINATION EFFICIENCY. BLOCS ARE DESIGNED TO BE NON-SPILL ABLE AND MAINTENANCE FREE THEREFORE REQUIRES NO TOPPING UP OF ELECTROLYTE DURING ITS WHOLE LIFE. LOW SELF-DISCHARGE ALLOWS 6 MONTHS SHELF LIFE.

BATTERY TYPE	NOMINAL VOLTAGE (V)	POWER (W/cell) 15 min to 1.67 VPC at 25°C	CAPACITY (Ah) 20 hrs to 1.75 VPC at 25°C	DIMENSIONS (mm)			TYPICAL WEIGHT (kg)
				Length	Width	Height	
12 FHB 350	12	374	95	302	174	217	30
12 FHB 400	12	415	105	341	174	217	34
12 FHB 450	12	477	120	379	174	217	38
12 FHB 700 P	12	710	210	558	126	321	61

ELECTRICAL CHARACTERISTICS

Float Voltage: 2.26 V/cell at 25°C
 Boost Voltage: 2.40 V/cell
 Float Voltage Compensation with Temperature: -2.5 mV/cell/°C
 Self-Discharge at 25°C: <2%/month

STANDARDS

IEC 60896 Part 21 - VRLA methods of testing
 IEC 60896 Part 22 - VRLA requirements
 BS6334 / UL 94 V0 / IEC 707 FV0
 Eurobat ">12 years VERY LONG LIFE"

CERTIFICATIONS

ISO 9001
Quality Management System

ISO 14001
Environmental Management System

ISO 45001
Workplace Safety & Health

ACCESSORIES

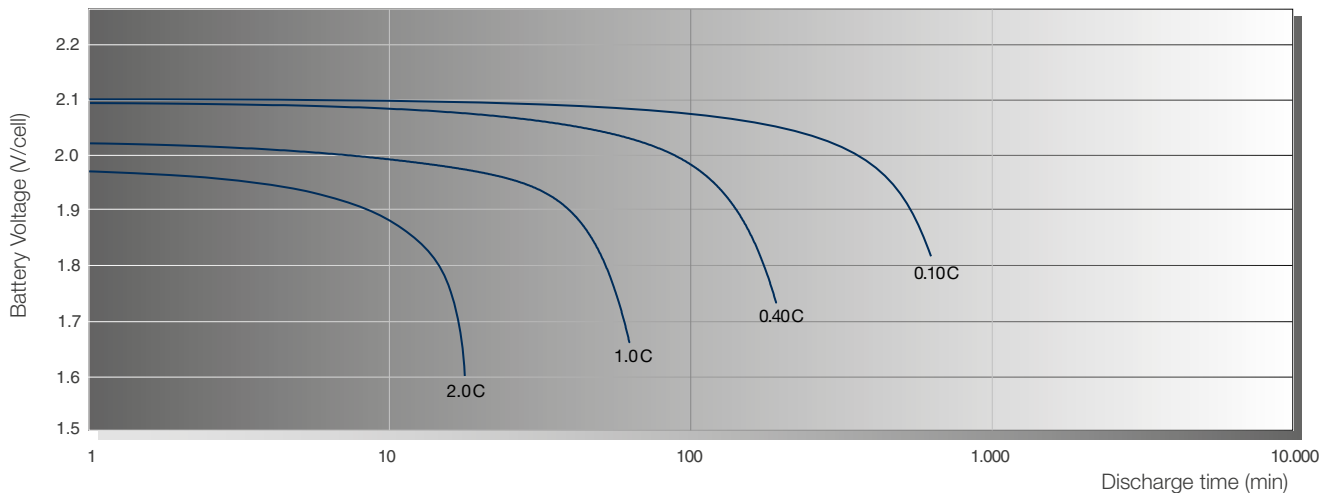
RVS
(remote venting system) for IP rated applications which require remote gassing

Rack for battery installation
(standard and anti-seismic)

Cabinets for battery installation
(including electrical protections and disconnection)

FIAMM Smartlogger

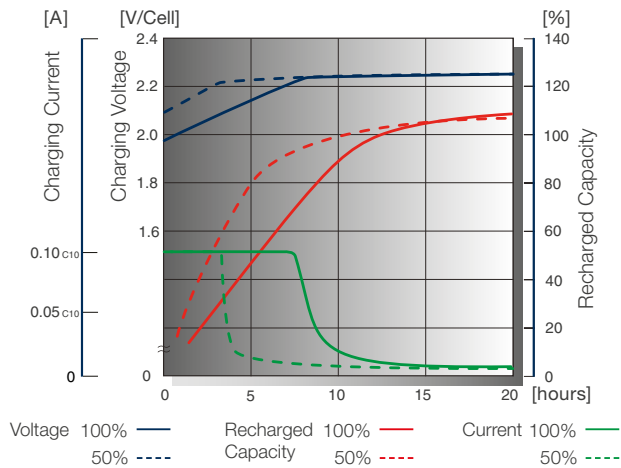
DISCHARGE CURVES at different current / final voltage (at 25°C)



The above discharge curves are typical. For more detailed information please see the specific product sheets.

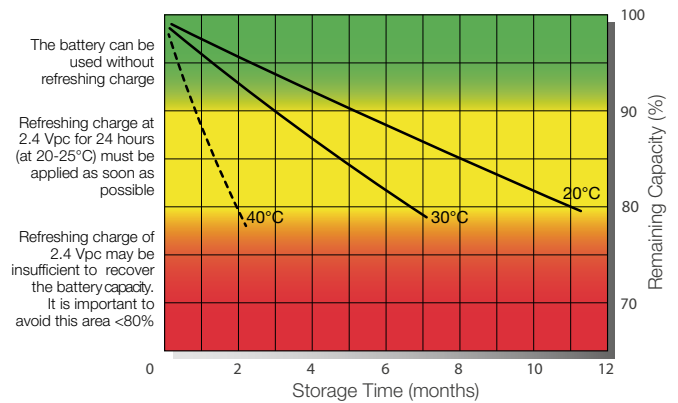
TYPICAL CHARGE CURVES

Battery Voltage and Charge Time for Standby Use (at 25°C)



STORAGE

Capacity loss during storage at various temperatures



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