



**FIAMM FIT** RANGE OF VALVE REGULATED BATTERIES HAS BEEN DESIGNED FOR HIGH RELIABILITY AND SAFETY FRONT TERMINAL TELECOM INSTALLATIONS.

FIT battery range has front terminal design ideal for installation on cabinet 19" and 23"; it allows easy access for maintenance reducing the Installation footprint and maximising the energy density. FIT 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. FIT range is compliant with the highest recognised international standards, non-hazardous for air/sea/rail/road transportation and is 100% recyclable. FIT has a self-discharge rate less than 2% per month, guaranteeing long shelf-life.

## SPECIFICATIONS

- Special lead calcium tin alloy grid, designed to resist corrosion and provide short recharge time.
- VRLA AGM technology using low resistance high microporous fiberglass separators.
- Leak resistant post seal, threaded female M6/M8 terminals with high conductivity and maximum torque resistance.
- One-way safety relief valves allow gas to escape and prevent the ingress of oxygen and flame arrestors prevent sparks or flames entering the battery.
- Flame retardant ABS plastic to IEC 707 FV0 and UL94 FV0 (LOI greater than 28%).
- Installation in any orientation (excluding permanently inverted).

## TECHNOLOGY

FIAMM FIT range use AGM (absorbed glass mat) technology. The electrolyte is absorbed in fiberglass separators with 99% internal gas recombination efficiency. Blocs are grants non-spillable and maintenance free therefore requires no topping up of electrolyte during its whole life. Low self-discharge allows 6 months shelf life.

## MAIN APPLICATIONS



TELECOMMUNICATION



UPS



UTILITIES & INDUSTRY



RAILWAYS



OIL & GAS

## ACCESSORIES

- RVS (remote venting system) for applications which require remote gassing
- Rack for battery installation (standard and seismic)
- Cabinets for battery installation (including electrical protections and disconnection)
- Battery monitoring systems

## STANDARDS

- IEC 60896 Part 21 - VRLA methods of testing
- IEC 60896 Part 22 - VRLA requirements
- BS633 / UL 94 V0 / IEC 707 FV0
- Eurobat ">12 years VERY LONG LIFE"
- UL Recognized

## CERTIFICATIONS

- ISO 9001 - Quality Management System
- ISO 14001- Environmental Management System
- ISO 45001 - Occupational Health and Safety Management System

## ELECTRICAL CHARACTERISTICS

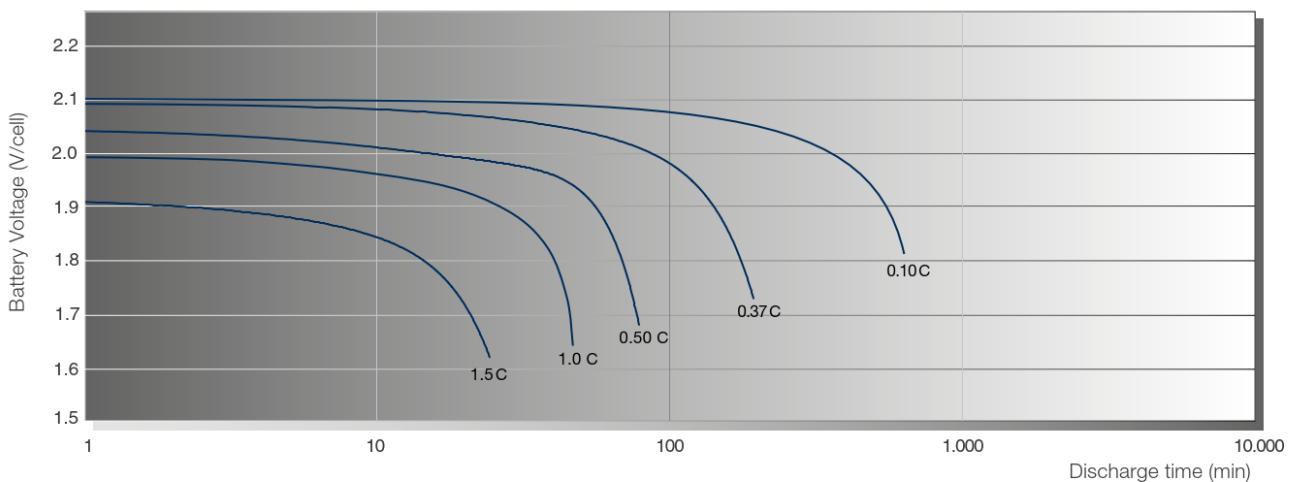
- Float Voltage: 2.27 V/cell at 20°C
- Boost Voltage: 2.40 V/cell
- Float Voltage Compensation with Temperature: -2.5 mV/cell/°C
- Self-Discharge at 20 °C: <2 % / month



## TECHNICAL CHARACTERISTICS

FIAMM FIT								
Battery Type	Nominal voltage (V)	Capacity (Ah) at 20°C 10 hrs to 1,8 VPC	Short Circuit Current (A) IEC 60896-21-22	Internal Resistance (mΩ) IEC 60896-21-22	Dimensions (mm)			Weight (kg)
					Length	Width	Height	
12FIT40	12	40	1000	8,0	105	280	198	13
12FIT60	12	60	1500	7,0	105	280	260	18
12FIT101	12	101	2750	4,6	108	395	275	33
12FIT100/23	12	100	2780	4,5	126	558	230	39
12FIT131	12	130	2150	5,9	126	558	282	46
12FIT150	12	150	2950	4,1	126	558	282	49
12FIT151	12	150	2600	4,8	110	531	314	49
12FIT180	12	180	3060	4,0	126	558	321	57
12FIT201	12	195	3800	3,3	126	558	321	61

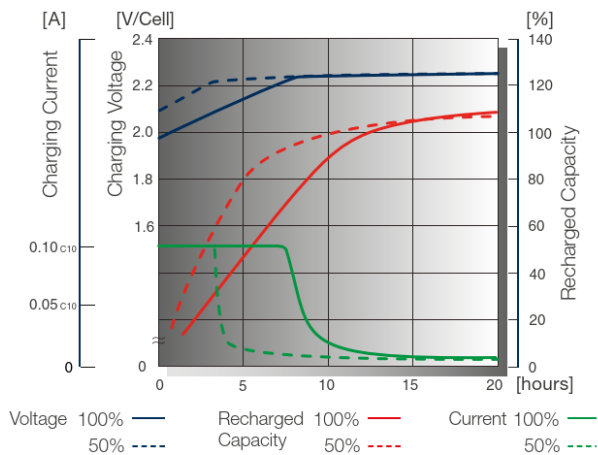
## DISCHARGE CURVES at different current / final voltage (at 20°C)



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 20°C)



## STORAGE

Capacity loss during storage at various temperatures

