

# FIAMM

Industrial Batteries

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## PMF Solar



### Applications and Key Benefits

- + Solar 6V and 12V blocks with 34Ah to 405Ah real capacity at C120 1.85 VPC
- + Designed for regular and long deep discharge ideal for:
  - Renewable energy islands (Solar / Wind)
  - Off-grid applications: telecom, signaling, lighting and other
  - Applications in areas with unstable grid and unreliable power supply
- + Excellent cycling also in state of partial discharge
- + > 1.500 cycles at 20°C / 60% DoD  
> 5.000 cycles at 20°C / 20% DoD
- + Tubular positive plates
- + Suitable for use at elevated temperature
- + Optimized for deep discharge recovery DIN 43539T5
- + 15 years design life under float condition
- + 100% Recyclable

### Applicable Standards

- IEC 61427 - photovoltaic energy systems
- DIN 43539T5 - deep discharge
- IEC 60896 Part 11 - vented types requirements & tests

### FIAMM Manufacturing

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

### Technical Features

- Tubular positive plates with special low antimony lead alloy reduces loss of water (3-year topping-up intervals on float condition)
- Electrolyte: high purity sulphuric acid solution with 1,25 specific gravity at 20°C
- Pasted negative grid plates with lead calcium alloy, designed to have service lives consistent with the positive plates
- Separators with extremely high porosity and low internal resistance
- Container and lid in translucent acid-resistant polypropylene, designed for unsurpassed mechanical strength
- Robust flag terminals guarantee highest conductivity and easy installation
- Vent plugs filter electrolyte from escaping gasses (on capacities 100Ah and more)
- Flame arrestors prevent sparks or flames from entering the battery (on capacities 100Ah and more)
- Rope handles facilitate handling and installation
- < 2% self-discharge per month at 20°C allows 6 months shelf life
- Less electrolyte stratification thanks to low plates
- Compact height compared to OPzS DIN blocks - ideal for installations with height restrictions



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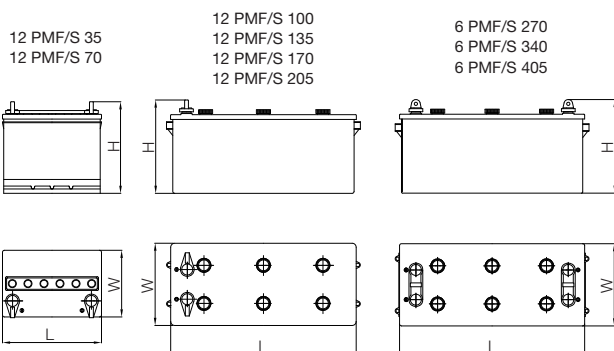


**FIAMM PMF Solar range**

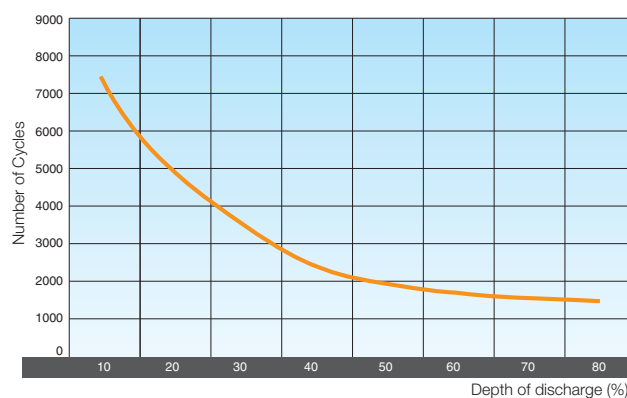
TYPE	NOMINAL VOLTAGE (Volt)	CAPACITY (Ah) at 20°C		INTERNAL RESISTANCE (mOhm)	WEIGHT (kg)		DIMENSIONS (mm)		
		120 hrs to 1.85 VPC	IEC 60896-11		without electrolyte	with electrolyte	Length	Width	Height
12 PMF/S 35	12	34	245	39.2	10.2	16.8	260	175	240
12 PMF/S 70	12	68	490	19.6	15.7	23.1	307	175	230
12 PMF/S 100	12	100	735	13.1	23.0	36.2	510	175	245
12 PMF/S 135	12	135	980	9.79	29.0	44.5	510	216	245
12 PMF/S 170	12	170	1225	7.83	34.9	57.0	510	278	256
12 PMF/S 205	12	205	1470	6.53	40.4	60.8	510	278	256
6 PMF/S 270	6	270	1960	2.45	26.8	45.4	510	216	245
6 PMF/S 340	6	340	2450	1.96	31.9	57.1	510	278	256
6 PMF/S 405	6	405	2940	1.63	38.1	62.0	510	278	256

**Electrical Characteristics**

- + FLOAT VOLTAGE PER CELL AT 20°C: 2.23 V/cell
- + RECHARGE VOLTAGE PER CELL AT 20°C: 2.4 V/cell



**Lifetime in cyclic use at 20°C**



FIAMM reserves the right to change or revise without notice any information or detail given in this publication PMF Solar\_EMEA\_2011\_05\_25

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