



RESIDENTIAL
ENERGY
STORAGE
SYSTEM



+
FIAMM.COM

FIAMM
+ -

Reserve
Power Solutions





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THE FIAMM RES SYSTEM
ALLOWS YOU THE
FREEDOM TO CHOOSE
WHEN TO USE ENERGY
FROM THE GRID IN
ORDER TO REDUCE YOUR
UTILITY BILL.





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+ FIAMM RES COMPACT DESIGN AND HIGH PERFORMANCE OFFERS ENERGY AUTONOMY IN THE HOME. THE MODULAR POWER CONFIGURATION INTEGRATES WITH ALL PHOTOVOLTAIC SYSTEMS; BEING COMPACT IT ALLOWS INSTALLATION IN TIGHT SPACES. FIAMM MANUFACTURING PROCESS AND PROCEDURE PROVIDE A SAFE AND RELIABLE SOLUTION. THE FIAMM RES SYSTEM SIGNIFICANTLY LOWERS THE COST OF SUPPLY FROM THE GRID.

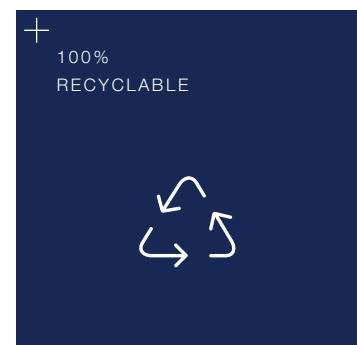
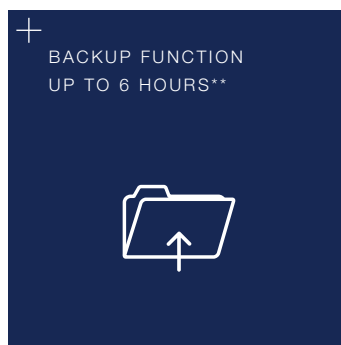
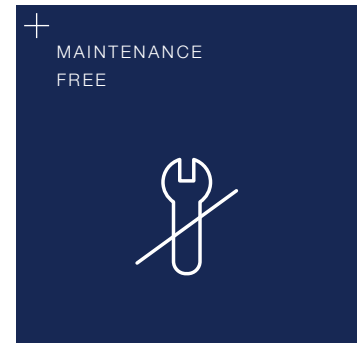
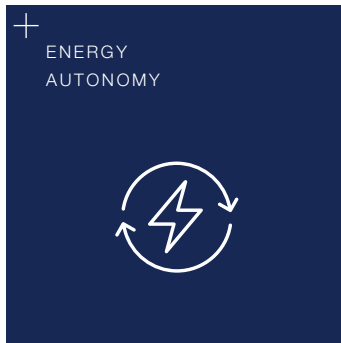


AUTONOMY AND OPTIMISATION OF COSTS THANKS TO RELIABLE STORAGE.

FIAMM HAS MANY SOLUTIONS FOR THE RESIDENTIAL MARKET THAT CAN STORE ENERGY PRODUCED FROM RENEWABLE SOURCES WHICH ARE INTENDED FOR DOMESTIC CONSUMPTION OPERATING AUTONOMOUSLY AND SAFELY.

THE FIAMM RES (RESIDENTIAL ENERGY STORAGE) SYSTEM THEREFORE ALLOWS YOU TO REDUCE YOUR ELECTRICITY BILL AND GRID CONSUMPTION, OPTIMISING THE EFFICIENCY OF YOUR SYSTEM.

WITH A RANGE COMPRISING 6 MODELS (AVAILABLE WITH A VOLTAGE OF 24V OR 48V) AND CAPACITY UP TO 12.5 KWH, RES PERFORMS A BACKUP FUNCTION THAT GUARANTEES A CONTINUOUS SUPPLY OF POWER AT ALL TIMES, EVEN WHEN THERE IS A POWER FAILURE ON THE GRID.



* VRLA: VALVE-REGULATED LEAD-ACID BATTERY.
SMG (MAINTENANCE-FREE GEL): BATTERY WITH ELECTROLYTE IMMOBILISED IN GEL STRUCTURE.
TPB (TUBULAR PLATE BATTERY): POSITIVE TUBULAR PLATE BATTERY.
DESIGN AND TECHNOLOGY ENSURE RELIABLE MAINTENANCE FREE AND HIGH CYCLIC PERFORMANCES.

** MAXIMUM 6 HOURS FOR PRIORITY LOADS.

DESIGNED
IN
ITALY

TECHNICAL FEATURES

SMG 12V model FIAMM batteries with Built-In Flame Arrestor

Short recharge time

<2% self-discharge per month at 20°C

Maintenance free

2500 cycles, 50% max DoD

Battery containers constructed with ABS IEC 707 FV0 - UL 94 V0 flame retardant plastics

1.3 mm thick metal casing to the EN 10130:2007 standard

4 sides accessible for inspection with safety locks and ventilation grilles

Safety components and wiring included

RES TYPE	NUMBER OF BATTERIES	TYPE OF BATTERIES	NOMINAL VOLTAGE	NOMINAL ENERGY	DIMENSIONS (MM)			WEIGHT (KG)
					LENGTH	DEPTH	HEIGHT	
RES 6.2KWH - 48V - 12SMG130	4	12SMG130	48V	6.2KWH	350	640	1000	256
RES 9.6KWH - 48V - 12SMG100	8	12SMG100	48V	9.6KWH	600	640	1000	412
RES 12.5KWH - 48V - 12SMG130	8	12SMG130	48V	12.5KWH	600	640	1000	492
RES 6.2KWH - 24V - 12SMG130	4	12SMG130	24V	6.2KWH	350	640	1000	256
RES 9.6KWH - 24V - 12SMG100	8	12SMG100	24V	9.6KWH	600	640	1000	412
RES 12.5KWH - 24V - 12SMG130	8	12SMG130	24V	12.5KWH	600	640	1000	492



APPLICABLE STANDARDS

EN 50272-2
safety requirements

IEC 61427
photovoltaic energy systems

DIN 43539T5
deep discharge

IEC 60896 Part 21
VRLA methods of testing

IEC 60896 Part 22
VRLA requirements

Eurobat "Long Life"
12 years and longer

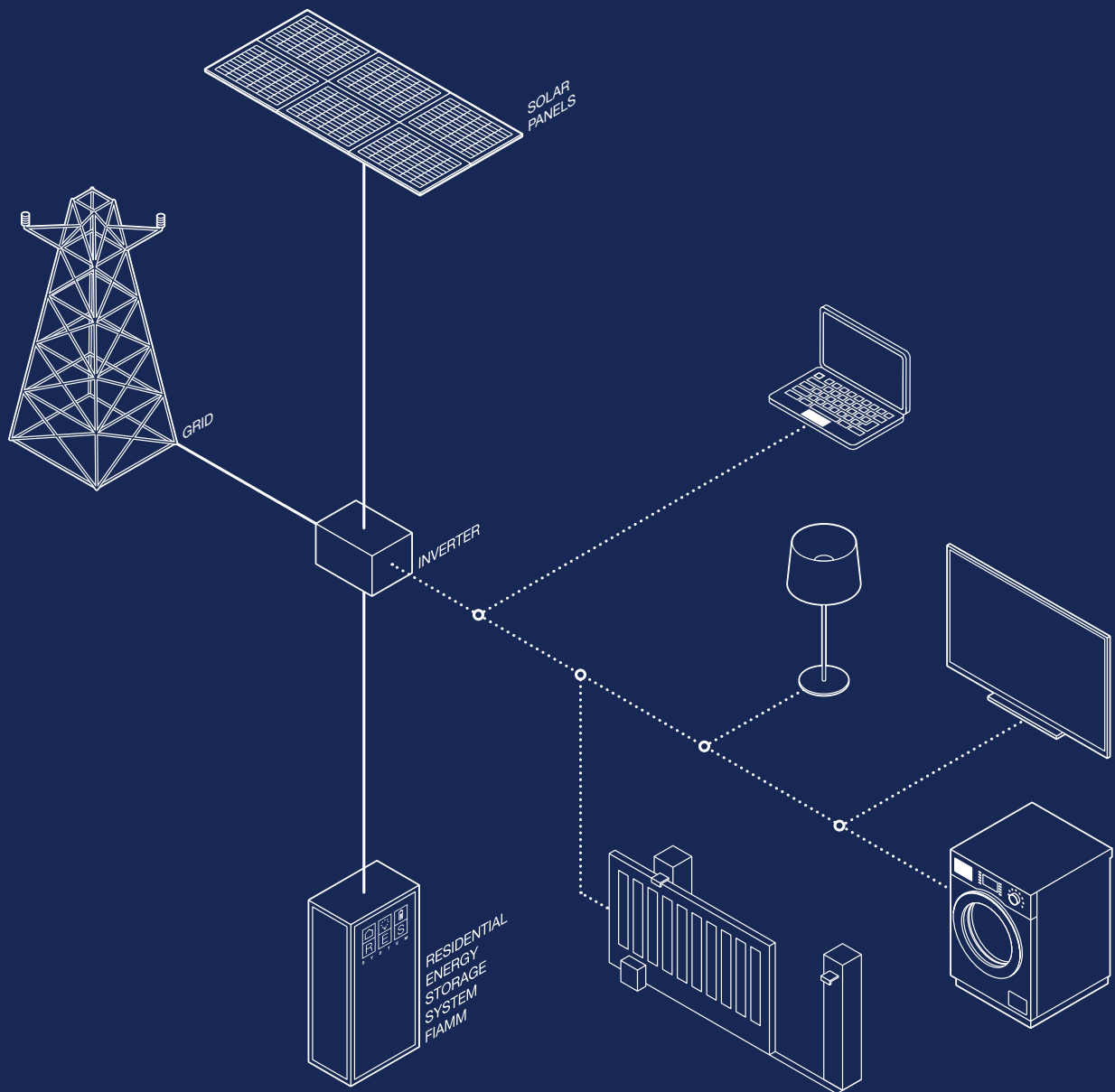


FIAMM MANUFACTURING

ISO 9001
Quality Management System

ISO 14001
Environmental Management System

OHSAS 18001
Workplace Safety & Health



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THE USE OF STORAGE BATTERIES EFFECTIVELY ELIMINATES ISSUES CONNECTED WITH THE VARIABILITY OF POWER GENERATION FROM RENEWABLE ENERGY SOURCES ENSURING ENERGY AUTONOMY EVEN IN THE ABSENCE OF SUN OR WIND, AS WELL AS SUPPORTING A CONSTANT POWER SUPPLY IN THE EVENT OF A POWER FAILURE (BACKUP FUNCTION).

THIS SMART ENERGY MANAGEMENT ALSO ALLOWS YOU TO PAY FOR LESS POWER FROM THE GRID AND OPTIMISE THE CONSUMPTION AND EFFICIENCY OF THE SYSTEM, BRINGING SELF-CONSUMPTION FROM 20% TO 70-80%.

Reserve Power Solutions	Energy Storage Solutions
Mobility Power Solutions	Acoustic Devices Antennas

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FIAMM IS A WORLD LEADER IN ENERGY BACKUP AND STORAGE AND MOBILITY PRODUCTS AND SOLUTIONS TO SUPPORT THE DEVELOPMENT OF HUMAN ACTIVITY.

ESTABLISHED IN 1942, FIAMM MAKES AND DISTRIBUTES CAR STARTER BATTERIES, BATTERIES FOR INDUSTRIAL USE (UPS UNITS, ENERGY BACKUP SYSTEMS), SODIUM NICKEL CHLORIDE BATTERIES FOR ENERGY STORAGE AND AUTOMOTIVE APPLICATIONS AND HORNS. IT OPERATES IN 60 COUNTRIES WITH 3,300 EMPLOYEES WORLDWIDE, 1,200 IN ITALY. IN ORDER TO KEEP IN CLOSE PROXIMITY TO ITS OWN CUSTOMERS FIAMM OPERATES 14 PRODUCTION PLANTS AND HAS OVER 20 INTERNATIONAL SALES AND TECHNICAL OFFICES, SUPPORTING A STRATEGIC NETWORK OF PARTNERS AND DISTRIBUTORS. FIAMM HAS BEEN INVOLVED IN THE ENERGY INDUSTRY FOR THE LAST 70 YEARS AND HAS STUDIED, PLANNED AND REALIZED SOLUTIONS AIMED AT ACCUMULATING AND PRESERVING ENERGY IN A RELIABLE AND EFFICIENT WAY.

FIAMM. YOUR WORLD OUR ENERGY.



Group

**Your World,
Our Energy.**

FIAMM S.P.A.
VIALE EUROPA, 75
36075 MONTECCHIO MAGGIORE (VI)
T 0444 709311 - F 0444 694178
INFO.STANDBY@FIAMM.COM
WWW.FIAMM.COM