



C&I - Commercial & Industrial STORAGE SYSTEM

Giving new energy to your business

www.faam.com

FAAM

WHY THE STORAGE?

The best solution to increase the competitiveness of your company

A storage system for industry offers advantages such as:

- energy optimisation;
- the reduction of energy costs;
- increased energy reliability;
- the integration of renewable energies;
- the reduction of carbon emissions.

The benefits can contribute to the the sustainability and competitiveness of the factories.



Power

From 30kW
up to 1000kW

Capacity

Scalable from
32kWh/40kWh
up to 2MWh

Tension

Up to 512V

- Load Shifting
- Off-grid Ability
- Retrofit Function
- Peak shaving
- Backup Function
- Demand Charge Management

KEY FEATURES

FAAM-branded lithium technology products are the safest and most reliable in terms of efficiency.

The FAAM-branded Energy Storage solution, thanks to the use of high quality materials, structure, component composition and high level of engineering, provides excellent performance in terms of energy storage and release in every situation, condition and time.

- Overvoltage control
- Undervoltage monitoring
- Over-temperature control
- MODBUS RS-485 communication
- Wi-Fi communication via a proprietary App on IOS or Android (on request)
- CAN Bus 2.0 communication for BMS
- Pre-loading system
- IP21 degree of protection for Rack
- IP54 degree of protection for Container solution
- 24/7 Monitoring



CONFIGURATION LiRack withTray to 10kWh

		LiRack							
		40	50	60	70	80	90	100	
Total energy	[kWh]	40	50	60	70	80	90	100	
Battery chemistry		LiFePo4							
Nominal capacity	[Ah]	100	100	100	200	200	200	200	
Usable capacity (DoD 80%)	[Ah]	80	80	80	160	160	160	160	
Nominal energy	[kWh]	40,8	51,2	61,4	71,6	81,9	92,1	102,4	
Minimum voltage (Cut-off)	[V]	318,8	400	480	280	320	360	400	
Rated voltage	[V]	408	512	614,4	358,4	409,6	460,8	512	
Maximum voltage	[V]	465,3	584	700,8	408,8	467,2	525,2	584	
Maximum continuous discharge current (25°C)	[C-rate]	1							
Maximum continuous charging current(25°C)	[C-rate]	1							
Operating temperature	[°C]	-20~ +55							
Relative humidity	[%R.H.]	Up to 60							
Dimensions	[LxWxD mm]	600x600x2200						600x600x2400	
Weight	[KG]	520 kg ± 5%	600 kg ± 5%	680 kg ± 5%	760 kg ± 5%	840 kg ± 5%	920 kg ± 5%	1000 kg ± 5%	
Cooling		Fan							
Installation		Floor							
Degree of protection		IP 21							
Certifications		CE, CEI 0-16, CEI 0-21, IEC62619, EMC							
Transport regulations		UN38.3, UN3480							
Warranty		10 years							

CONFIGURATION LiRack withTray to 8kWh

		LiRack						
		32	40	48	56	64	72	80
Total energy	[kWh]	32	40	48	56	64	72	80
Battery chemistry		LiFePo4						
Nominal capacity	[Ah]	80	80	80	160	160	160	160
Usable capacity (DoD 80%)	[Ah]	64	64	64	128	128	128	128
Nominal energy	[kWh]	32,6	41	49,2	57,3	65,5	73,7	81,9
Minimum voltage (Cut-off)	[V]	318,8	400	480	280	320	360	400
Rated voltage	[V]	408	512	614,4	358,4	409,6	460,8	512
Maximum voltage	[V]	465,3	584	700,8	408,8	467,2	525,2	584
Maximum continuous discharge current (25°C)	[C-rate]	1						
Maximum continuous charging current(25°C)	[C-rate]	1						
Operating temperature	[°C]	-20~ +55						
Relative humidity	[%R.H.]	Up to 60						
Dimensions	[LxWxD mm]	600x600x2200					600x600x2400	
Weight	[KG]	520 kg ± 5%	600 kg ± 5%	680 kg ± 5%	760 kg ± 5%	840 kg ± 5%	920 kg ± 5%	1000 kg ± 5%
Cooling		Fan						
Installation		Floor						
Degree of protection		IP 21						
Certifications		CE, CEI 0-16, CEI 0-21, IEC62619, EMC						
Transport regulations		UN38.3, UN3480						
Warranty		10 years						



FAAM INVERTER IT30 E IT50

Main features

- IP65 degree of protection
- Insulation resistance protection
- Overload protection
- Overheating protection
- Wi-Fi Communication
- CAN Bus 2.0 communication for BMS

IT30 and IT50 THREE-PHASE INVERTER CHARACTERISTICS

		IT30	IT50
FVCC input			
Maximum input PV power	[kW]	45	75
Initial voltage	[V]	135	135
Maximum input voltage	[V]	1000	1000
Nominal input voltage	[V]	620	620
MPPT voltage range	[V]	200-850	200-850
No. of MPPT Trackers		4	4
No. of DC inputs per MPPT		2	2
Maximum input current	[A]	30x4	30x4
Maximum short-circuit current	[A]	40x4	40x4
Battery connection			
Battery type	Lithuim-ion(with BMS) Lithuim-ion(with BMS)	Lithuim-ion(con BMS)	Lithuim-ion(con BMS)
Voltage range	[V]	135-750	135-750
Maximum charge/discharge current	[A]	100/100	100/100
Output			
Rated output power	[kW]	30	50
Maximum apparent output power	[kVA]	33	55
Maximum apparent input power	[kVA]	36	60
Maximum battery charging power	[kW]	30	50
Nominal output voltage		3L/N/PE; 220/380V;230/400V;240/415V	3L/N/PE; 220/380V;230/400V;240/415V
Rated AC mains frequency	[Hz]	50/60	50/60
Maximum output current	[A]	50	83
Power factor		0.8 leading ... 0.8 lagging	0.8 leading ... 0.8 lagging
Maximum total harmonic distortion		<3% @Rated output power	<3% @Rated output power
DCI		<0.5%In	<0.5%In
Backup			
Rated output power	[kW]	30	50
Max. apparent output power	[kVA]	33	55
Maximum output current	[A]	50	83
Backup mode activation time		<20ms	<20ms
Nominal output voltage		3L/N/PE; 220/380V;230/400V;240/415V	3L/N/PE; 220/380V;230/400V;240/415V
Rated output frequency	[Hz]	50/60	50/60
Harmonic distortion of voltage		<3% @Linear load	<3% @Linear load
Efficiency			
Maximum efficiency		98.8%	98.8%
European weighted efficiency		98.3%	98.3%
Protection			
DC reverse polarity protection		Integrated	Integrated
Reverse battery input connection protection		Integrated	Integrated
Insulation resistance protection		Integrated	Integrated
Transient protection		Integrated	Integrated
Overheating protection		Integrated	Integrated
Residual current protection		Integrated	Integrated
Anti-islanding protection		Integrated	Integrated
AC overvoltage protection		Integrated	Integrated
Overload protection		Integrated	Integrated
AC short-circuit protection		Integrated	Integrated
General Data			
Overvoltage category		CC: II CA: III	CC: II CA: III
Dimensions	[WxHxD mm]	800x620x300	800x620x300
Weight	[KG]	72	72
Degree of protection		IP65	IP65
Night-time energy consumption	[W]	<15	<15
Type		Without transformer	Without transformer
Operating temperature range	[°C]	-30~60	-30~60
Relative humidity	[%]	0~100	0~100
Operating altitude	[m]	3000 (owngrade@>3000m)	3000 (downgrade@>3000m)
Cooling		Intelligent fan	Intelligent fan
Noise levels	[dB]	<50	<50
User Interface		OLED & LED	OLED & LED
Communication		CAN, RS485, WiFi/LAN (Optional)	CAN, RS485, WiFi/LAN (Optional)

WHY CHOOSE FAAM

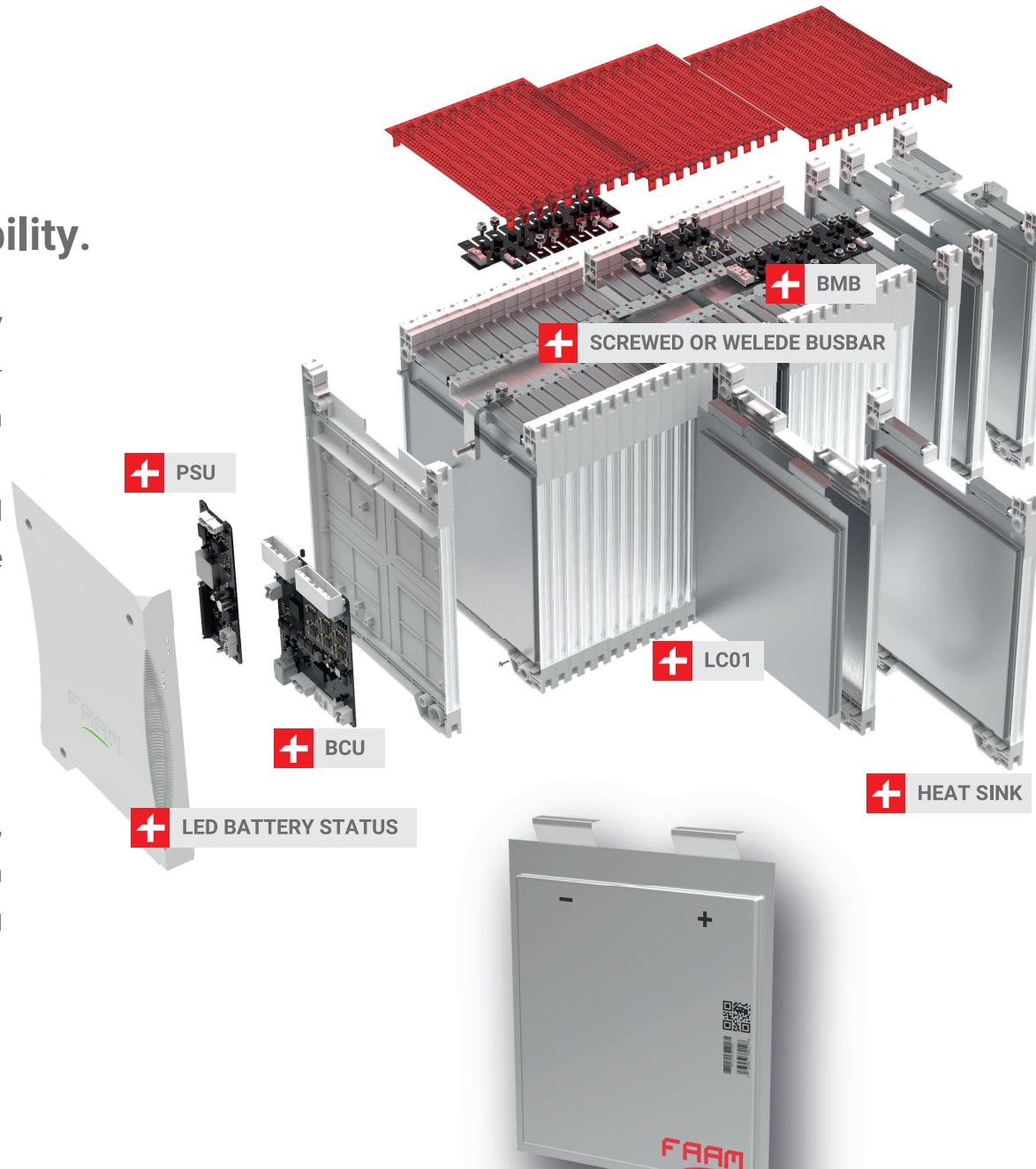
The first cell made in Italy, in Lithium-Iron-Phosphate technology with water-based solvent, for maximum efficiency and sustainability.

The FAAM brand, owned by Seri Industrial SpA, has been producing energy efficient battery systems since 1974. Starting in the 2000s, including customised lithium battery solutions, FAAM produced its first lithium-based solution in 2004, including an innovative management system (BMS).

By supplying a genuine Made in Italy product, FAAM has full knowledge and the entire value chain, including an international agreement to control the lithium raw material.

Fully integrated production process

Starting with the complete control of raw materials and the production process, supported by customised technologies and defined facilities - from lithium extraction, cell and module production, pack assembly and, after use, recycling and subsequent reuse - FAAM is able to guarantee the highest quality.



KOMBI MODULE

Modular lithium ion battery

The Kombi series products represent the most innovative solution in energy storage for all purposes.

Long service life, fast recharging and maintenance-free operation make Kombi modules the perfect solution where performance, durability, safety and energy efficiency do not have to be compromised.

Certifications

- IEC62619
- IEC62620
- UN3 8.3
- CE



MADE IN ITALY



FAAM

S E R I
industrial GROUP

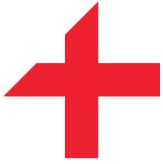
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We are available to answer all your questions



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