

Secure
Power
Solutions

Industrial Batteries

FIAMM

Industrial Batteries

North America

Industrial Batteries






AGM VRLA			
FG	FGC	FGH	FGHL
			
AGM VRLA	AGM VRLA	AGM VRLA	AGM VRLA
FIAMM AGM batteries have optimized internal gas recombination and are maintenance free without topping up. They are non-spillable, non-hazardous for transportation and 100% recyclable			

- main application
- secondary application

application & usage	high rate UPS			●	●
	telecom	●			
	emergency, security, signaling & other UPS	●		●	●
	IT network & data centers	●		●	●
	industry & process controls	●			
	utilities				
	oil & gas / switchgear	●			
	leisure, toys & minor traction	●	●	●	●
	renewable energy storage	●	●		
	designed for use also at elevated temperature				
unstable grid installation		●			
off-grid island installation	●	●			
technology & design	positive plate & electrolyte	flat plate absorbed electrolyte	flat plate absorbed electrolyte	flat plate absorbed electrolyte	flat plate absorbed electrolyte
	DIN type				
	target discharge profile	15min to 20h discharge		high rate	high rate
	deep discharge (DIN 43539T5 for VRLA)		✓		
	design life*	5 years	5 years	5 years	10 years
	maintenance	maintenance free	maintenance free	maintenance free	maintenance free
	nominal voltage	6V - 12V	12V	12V	12V
	capacity range	0.8 to 70 Ah	12 to 42 Ah	23 to 65 watts per cell	22 to 48 watts per cell
	design & installation	depending on model: faston, wire+connector or flag	depending on model: faston, flag or female	depending on model: faston or flag	faston terminals
	FV0 flame retardant plastics		optional		✓
remote venting					




* in float operation and temperature controlled environment

Industrial Batteries

		AGM VRLA				GEL VRLA
		FLX	SLA	SLA stackable	FAT	SMG
						
		AGM VRLA	AGM VRLA	AGM VRLA	AGM VRLA	GEL VRLA
		FIAMM AGM batteries have optimized internal gas recombination and are maintenance free without topping up. They are non-spillable, non-hazardous for transportation and 100% recyclable				FIAMM tubular gel batteries are designed for cycling and excellent temperature resistance
application & usage	high rate UPS	●	●	●		
	telecom		●	●	●	●
	emergency, security, signaling & other UPS	●	●	●	●	●
	IT network & data centers	●	●	●	●	
	industry & process controls		●	●	●	●
	utilities		●	●	●	●
	oil & gas / switchgear		●	●	●	●
	leisure, toys & minor traction					
	renewable energy storage					
	designed for use also at elevated temperature					●
	unstable grid installation					●
off-grid island installation						
technology & design	positive plate & electrolyte	flat plate absorbed electrolyte	flat plate absorbed electrolyte	flat plate absorbed electrolyte	flat plate absorbed electrolyte	tubular gelled electrolyte
	DIN type					DIN 40742 OPzV
	target discharge profile	high rate	high rate to long discharge	high rate to long discharge	1h to 10h discharge	1h to 100h long discharge
	deep discharge (DIN 43539T5 for VRLA)					✓
	design life*	up to 10 years	12 years	20 years	up to 12 years	18 years
	maintenance	maintenance free	maintenance free	maintenance free	maintenance free	maintenance free
	nominal voltage	12V	2V - 4V - 6V - 12V	2V	12V	2V cells
	capacity range	100 to 700 watts per cell	25 to 580 Ah	800 to 2000 Ah	30 to 180 Ah	220 to 3350 Ah
	design & installation	high energy density	high energy density	high energy density	front terminal for 19" and 23" cabinets	vertical or horizontal installation
	FV0 flame retardant plastics	✓	✓	✓	✓	optional
remote venting	on selected models			✓		



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		FLOODED		
		SD / SDH	LM	SGL / SGH
				
		Vented	Vented	Vented
		FIAMM traditional batteries are available for high to long discharge application, also for use with unstable grid and deep discharge. Minimum maintenance and topping up is required.		
application & usage	high rate UPS	●		●
	telecom		●	●
	emergency, security, signaling & other UPS	●	●	
	IT network & data centers	●	●	●
	industry & process controls	●	●	●
	utilities	●	●	●
	oil & gas / switchgear	●	●	●
	leisure, toys & minor traction			
	renewable energy storage			
	designed for use also at elevated temperature			
	unstable grid installation	●	●	
off-grid island installation				
technology & design	positive plate & electrolyte	flat plate free electrolyte	tubular free electrolyte	Planté pure lead free electrolyte
	DIN type		DIN 40736 OPzS	DIN 40738 GroE
	target discharge profile	high rate to 10h discharge	1h to 10h discharge	high rate to 10h discharge
	deep discharge (DIN 43539T5 for VRLA)		✓	
	design life*	20 years	20 years	25 years
	maintenance	3 year topping up in float condition	3 year topping up in float condition	3 year topping up in float condition
	nominal voltage	2V cells	2V cells	2V cells
	capacity range	80 to 2320 Ah	100 to 3500 Ah	75 to 2600 Ah
	design & installation	also available dry charged	also available dry charged	also available dry charged
	FV0 flame retardant plastics			
remote venting				

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Industrial Batteries

SODIUM	
SoNick 48TL	SoNick RW
	
Sodium Nickel Chloride	Sodium Nickel Chloride
Energy storage devices with lowest cost of ownership and zero ambient emission, designed to operate in extreme temperature conditions	

- main application
- secondary application

application & usage	application	telecom	railway
	designed for use also at elevated temperature	●	●
	unstable grid installation	●	
	off-grid installation	●	
technology & design	technology	sodium nickel chloride cells	sodium nickel chloride cells
	target discharge profile	up to 12h discharge	up to 12h discharge
	deep discharge	✓	✓
	design life*	20 years at -4° to +140°F operation	20 years at -13° to +149°C operation
	maintenance	zero maintenance & remote monitoring	zero maintenance & remote monitoring
	interface	48TL80: RS 232 (option RS 485) others: RS 485 / USB / Ethernet / CAN-bus	CAN-bus
	applicable standards	- EN 61000-6-1 - CE - CAS Nr 7440-02-0: Nickel specification - NEBS Level-1 DA-1976 48TL200: certified 48TL120, 48TL160, 48TL160H: designed to comply	Designed to comply with: - IEC 60571 / 61373 / 61571 / 61991 / 62236-3-1 - EN 50121-1 / 51121-3-1 / 51121-3-2 / 50126 / 50128 / 50129 / 50155:2007 - EN 60529 (IP65) - NFPA 130 - UL-1973
	nominal voltage	48V	110V
	capacity range	80 to 200 Ah	80 Ah
	energy density	70% lighter and 30% smaller than conventional technologies	70% lighter and 30% smaller than conventional technologies
casing	double stainless steel case**	double stainless steel case	
energy storage room	zero emission no venting required	zero emission no venting required	

* in float operation

** 48TL-H models: optimized insulation to guarantee lowest thermal loss and maximize the energy efficiency of the energy storage device



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