

Povver[®] BATTERY

PROFESSIONALS' ADVICE

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www.povver.com.tr

MIB
Metair International Battery

LEISURE

Leisure and Alternative Energy Batteries

PROFESSIONALS' ADVICE



Leisure and Alternative Energy Batteries

The range is exclusively designed for special purposes of marine, solar power systems, camper vans, electric vehicles, golf carts, alarm, security systems, UPS and disabled chairs. Power for vehicles and systems which make the life easier and they ultimately add value to life.



SFB MARINE

Superior Flooded Battery

SFB Series batteries are developed for changing needs of water transportation vehicles. Marine group batteries are equipped with spill-proof technology and have central degassing system and flash arrestor. These maintenance free batteries consist of custom design silver additive grids and a special active material to maintain longer cycle life and higher cost saving. Minimum discharge feature delivers maximum shelf life and correspond to seasonal stand-by periods.

Areas Of Application

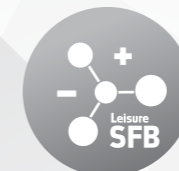


**FULLY
FRAMED**

Advantages



▶ Advanced patented Ca-Ca silver alloy grid technology exclusively designed for SFB marine batteries



▶ Advanced active material developed for SFB marine batteries



▶ More vibration resistant



▶ Spill proof electrolyte system up to 55° tilt angle



▶ Sealed safe lid technology



▶ Nearly 100% recycling capability of all products make POWVER environmental friendly and sustainable



▶ QR and barcode system enabling tracking of products



▶ Maintenance-free product technology



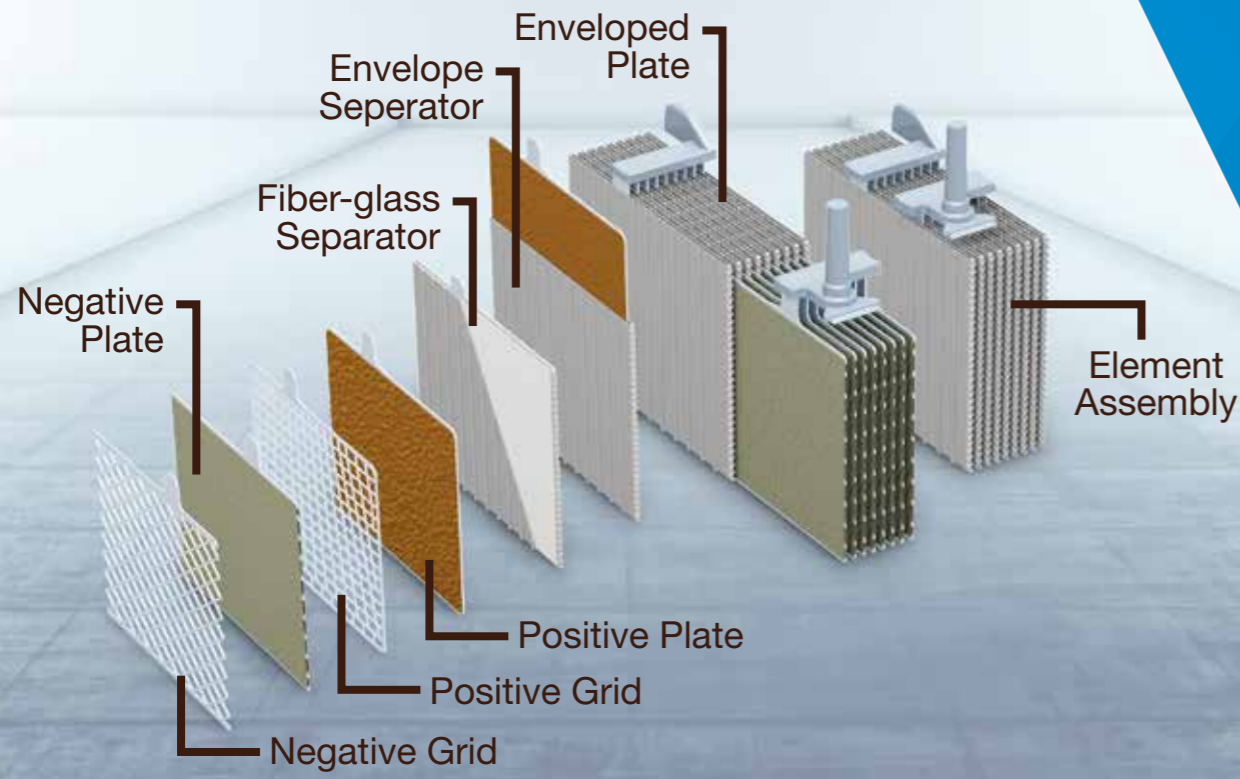
▶ Higher performance under severe climate and working conditions compared to standard batteries

* Fully sealed in certain type of batteries.

Areas Of Application



SFB
Superior Flooded Battery
technology
MARINE



Magic eye indicating battery state of charge

Post
Terminal
Reinforced lead connection

Patented newly designed, ergonomic handle and protective lid



Flame arrester



EFB Enhanced Flooded Battery

Full energy and solar batteries are critical power sources for applications requiring longer operation periods. With reinforced interior design and high charging levels, Mutlu EFB batteries are designed for longer cycle life for cleaning machines, electric vehicles, alarm and security systems, solar power systems, disabled chairs, elevators, pallet lifting equipment, golf carts, camper vans and UPS. Up to 50% deep discharge in applications requiring higher power, EFB batteries for marine applications do not require maintenance due to lower water loss levels.

Areas Of Application



**FULLY
FRAMED**



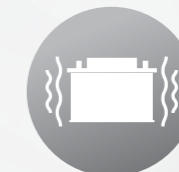
Advantages



▶ Advanced patented Ca-Ca silver alloy grid technology exclusively designed for EFB batteries



▶ Advanced active material developed for EFB batteries



▶ More vibration resistant



▶ Spill proof electrolyde system up to 55° tilt angle



▶ Nearly 100% recycling capability of all products make POWVER environmental friendly and sustainable



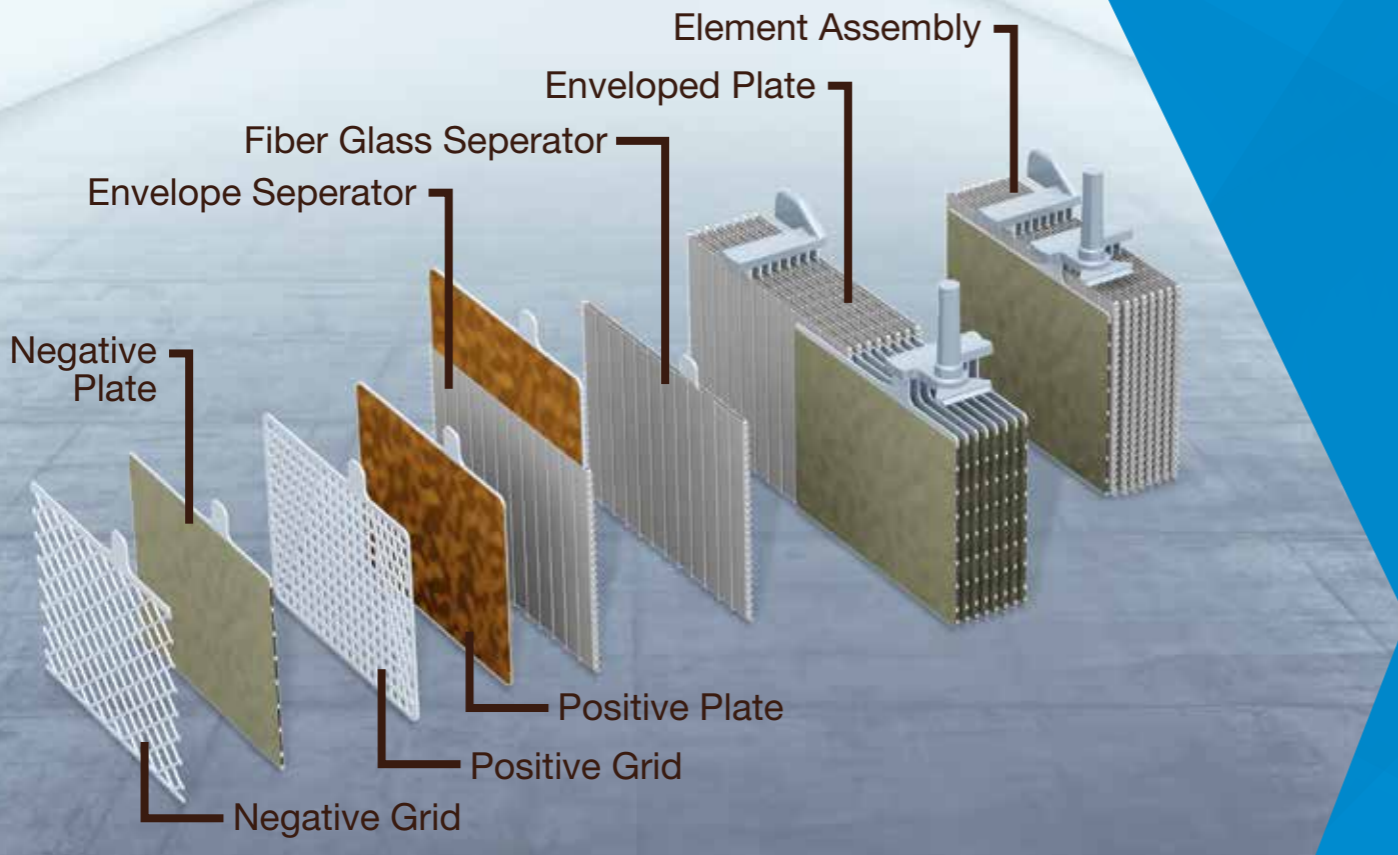
▶ QR and barcode system enabling tracking of products



▶ Maintenance-free product technology



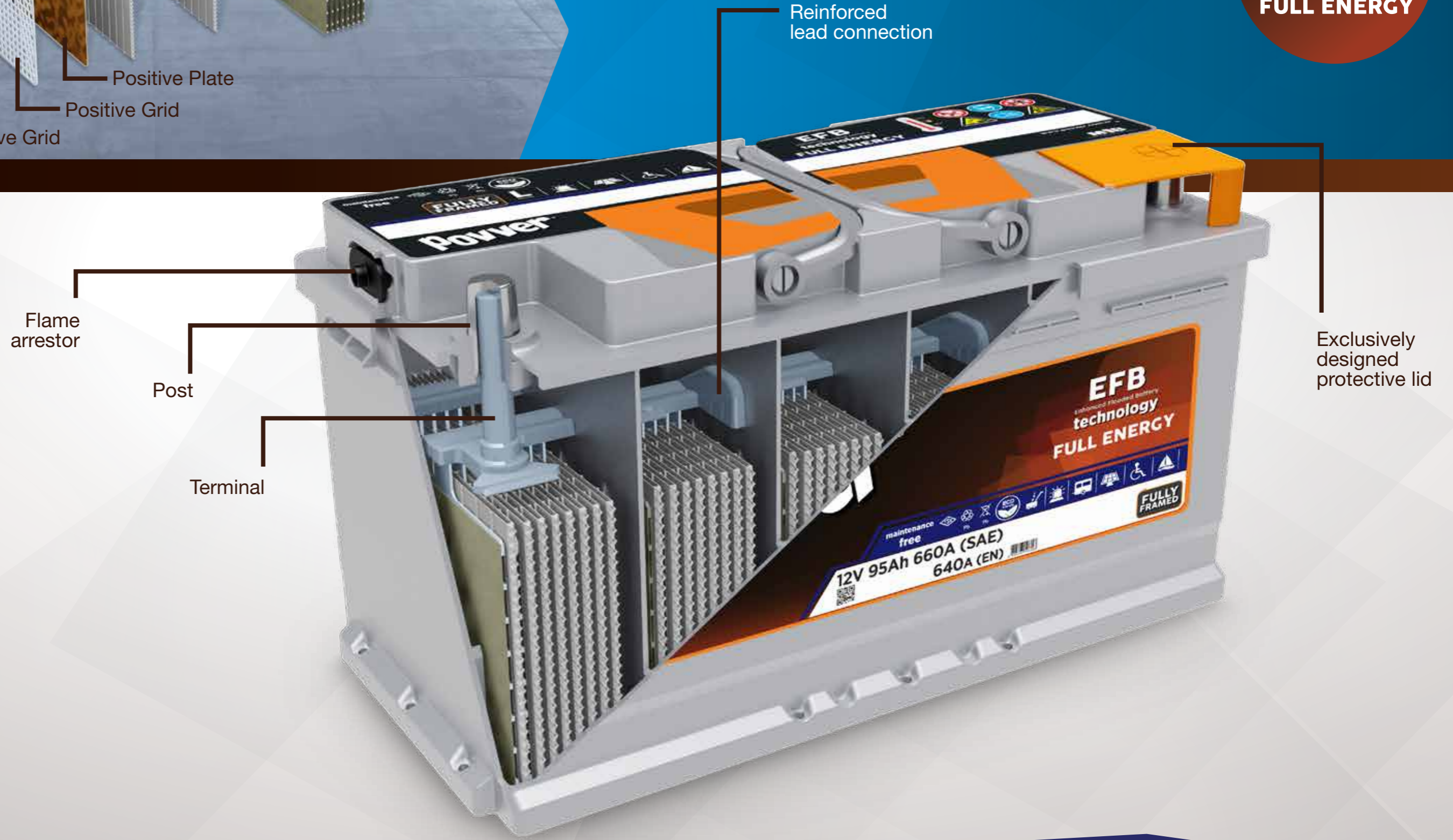
▶ Higher performance under severe climate and working conditions compared to standard batteries



Areas Of Application



EFB
Enhanced Flooded Battery
technology
FULL ENERGY



GEL

Powver Valve Regulated Lead Acid (VRLA) batteries contain gel electrolytes which are accepted to be the cutting edge lead acid battery technology. As Gel batteries reprocess almost 100% of the gas generated during operation and this feature allows indoor area usage and creates more environmental friendly batteries.



Areas Of Application



Deep cycle

Compatible with deep discharge

FULLY FRAMED

Advantages

<p>▶ Advanced patented Ca-Ca silver alloy grid technology exclusively designed for GEL batteries</p>	<p>▶ Advanced active material developed for GEL batteries</p>	<p>▶ More vibration resistant</p>	<p>▶ Spill proof electrolyde system up to 55° tilt angle</p>	<p>▶ Spill proof gel electrolytes</p>
<p>▶ Exclusively designed valve system with pressure control (VRLA)</p>	<p>▶ Nearly 100% recycling capability of all products make POWER environmental friendly and sustainable</p>	<p>▶ QR and barcode system enabling tracking of products</p>	<p>▶ Maintenance-free product technology</p>	<p>▶ Higher performance under severe climate and working conditions compared to standard batteries</p>

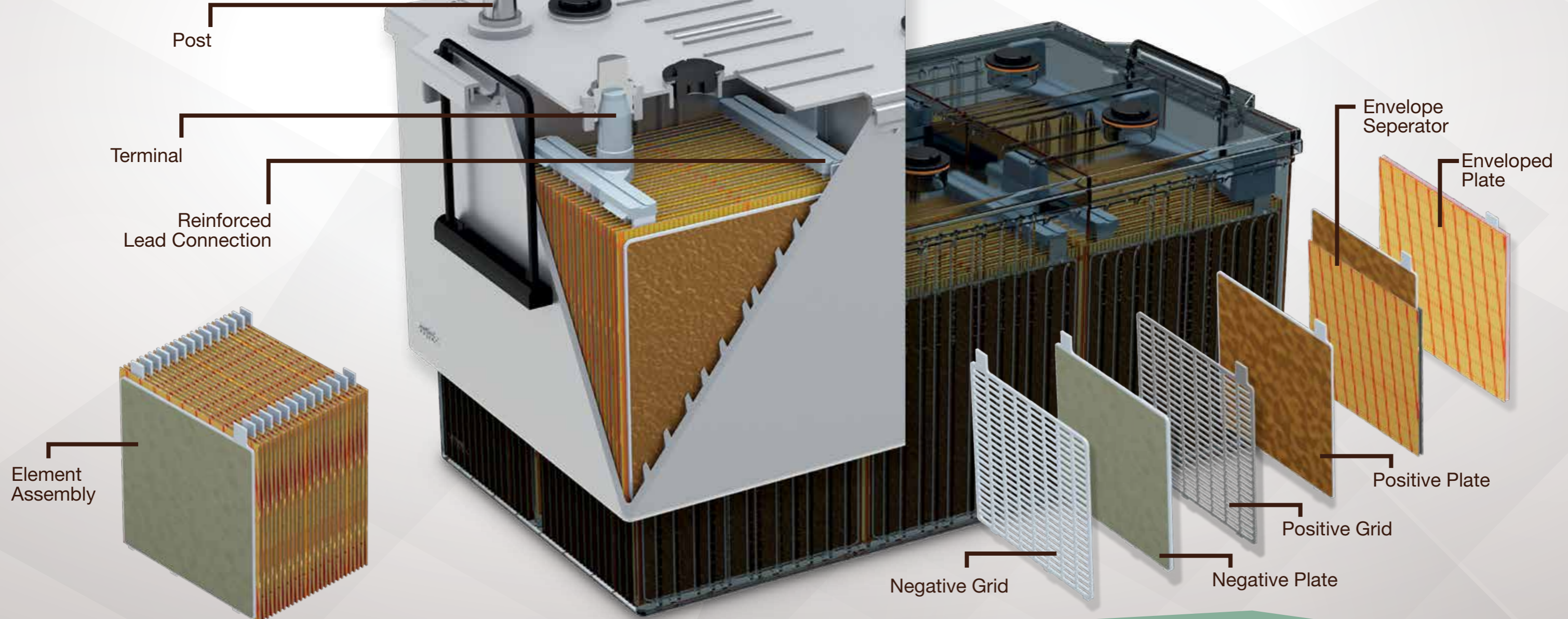
* Fully sealed in certain type of batteries.

Areas Of Application



GEL
technology

Exclusively designed
valve system with
pressure control



<p>SFB Superior Flooded Battery technology MARINE</p>	<p>EFB Enhanced Flooded Battery technology FULL ENERGY</p>	<p>GEL technology</p>
<p>Advanced patented Ca-Ca silver alloy grid technology exclusively designed for SFB marine batteries</p>	<p>Advanced patented Ca-Ca silver alloy grid technology exclusively designed for EFB Full Energy batteries</p>	<p>Advanced patented Ca-Ca silver alloy grid technology exclusively designed for GEL batteries</p>
<p>Advanced active material developed for SFB marine batteries</p>	<p>Advanced active material developed for EFB Full Energy batteries</p>	<p>Advanced active material developed for GEL batteries</p>
<p>Higher performance under severe climate and working conditions compared to standard batteries</p>	<p>Higher performance under severe climate and working conditions compared to standard batteries</p>	<p>Higher performance under severe climate and working conditions compared to standard batteries</p>
<p>* Sealed lid technology</p>	<p>* Exclusively designed lid with pressure controlled valve system (VRLA)</p>	
	<p>Spill proof gel electrolytes</p>	
	<p>Compatible with deep discharge</p>	

Maintenance-free product technology

More vibration resistant

Spill proof electrolyte system up to 55° tilt angle

Nearly 100% recycling capability of all products make POWER environmental friendly and sustainable

QR and barcode system enabling tracking of products

RECYCLING ABOVE INDUSTRY STANDARDS

TSE ISO EN 14000 and TS EN ISO 50001 certified manufacturing facility which is sensible to environment

Higher energy efficiency acquired by purification through direct refining technology

Nearly **100%** recycling capability in all products.

Recycling plant with an annual capacity of **40.000 tons**

Product Dimensions List

Type	Model	Part No.	Capacity at 20°C (Ah)	Cold Cranking Amps (CCA)	Reserve Capacity (RC)	Length (mm)	Width (mm)	Height (mm)	Terminal Dimensions (mm)				Terminal Pitch (mm)
									Terminal 1	Terminal 2	Terminal 3	Terminal 4	

SBF SERIES 1 HEAVY DUTY TYPE STARTER BATTERIES

Type	Model	Part No.	Capacity (Ah)	CCA	RC	Length (mm)	Width (mm)	Height (mm)	Terminal 1	Terminal 2	Terminal 3	Terminal 4	Terminal Pitch (mm)
DC (Type A)	104L120/090A	MF 63045	120	900	950	1	1	83	50	26	26	22	54.0
	104L120/090A	MF 63030	120	900	1000	1	1	83	50	26	26	22	55.7
DC (Type B)	104L120/090A	MF 63045	120	900	950	1	1	83					54.0
	104L120/090A	MF 63030	120	900	1000	1	1	83					55.7
	104L120/090A	MF 63045	120	900	950	1	1	83					54.0
	104L120/090A	MF 63030	120	900	1000	1	1	83					55.7
DC (Type C)	104L200/120B	MF 70039	200	1300	1250	1	1	80	58	27	26	22	54.7
	104L200/120B	MF 70012	200	1300	1400	1	1	80	58	27	26	22	60.0

SBF SERIES 1 SUPER HEAVY DUTY TYPE STARTER BATTERIES

Type	Model	Part No.	Capacity (Ah)	CCA	RC	Length (mm)	Width (mm)	Height (mm)	Terminal 1	Terminal 2	Terminal 3	Terminal 4	Terminal Pitch (mm)
DC (Type B)	100G180/120A	MF 60039	180	1200	1300	1	1	83	50	26	26	22	54.0
DC (Type C)	100G200/120B	MF 70039	200	1250	1300	1	1	80	58	27	26	22	55.0
	100G220/120B	MF 73039	220	1250	1300	1	1	80	58	27	26	22	57.5
	100G250/140B	MF 75039	250	1450	1500	1	1	80	58	27	26	22	61.0

SBF SERIES 2 HEAVY DUTY TYPE STARTER BATTERIES

Type	Model	Part No.	Capacity (Ah)	CCA	RC	Length (mm)	Width (mm)	Height (mm)	Terminal 1	Terminal 2	Terminal 3	Terminal 4	Terminal Pitch (mm)
DC (Type A)	04005/090A	MF 63032	120	900	1000	1	1	83	50	26	26	22	55.7
DC (Type B)	04006/090A	MF 63033	160	1000	1050	1	1	83					58.2
	04007/090A	MF 63037	160	1100	1050	1	1	83	50	26	26	22	61.0
	04008/090A	MF 63033	160	1300	1250	1	1	83					58.0
DC (Type C)	04009/120B	MF 70039	200	1300	1250	1	1	80	58	27	26	22	54.7

SPECIAL TYPE STARTER BATTERIES

Type	Model	Capacity (Ah)	CCA	RC	Length (mm)	Width (mm)	Height (mm)	Terminal 1	Terminal 2	Terminal 3	Terminal 4	Terminal Pitch (mm)
DC	10205/090C	120	900	950	2	1	80	286	209	208	230	56.1

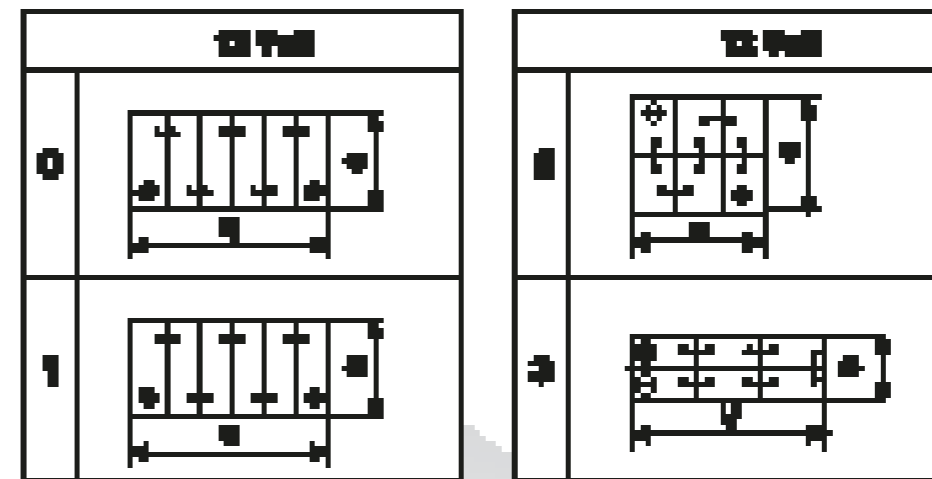
TAXI BATTERIES

Type	Model	Capacity (Ah)	CCA	RC	Length (mm)	Width (mm)	Height (mm)	Terminal 1	Terminal 2	Terminal 3	Terminal 4	Terminal Pitch (mm)
LT	TA00L2/65/044A	65	540	570	0	1	80	242	176	180	180	55.6
LT	TA00L3/70/067C	70	570	600	0	1	81	276	176	180	180	59.0

SBF SERIES 3 SUPER HEAVY DUTY TYPE STARTER BATTERIES

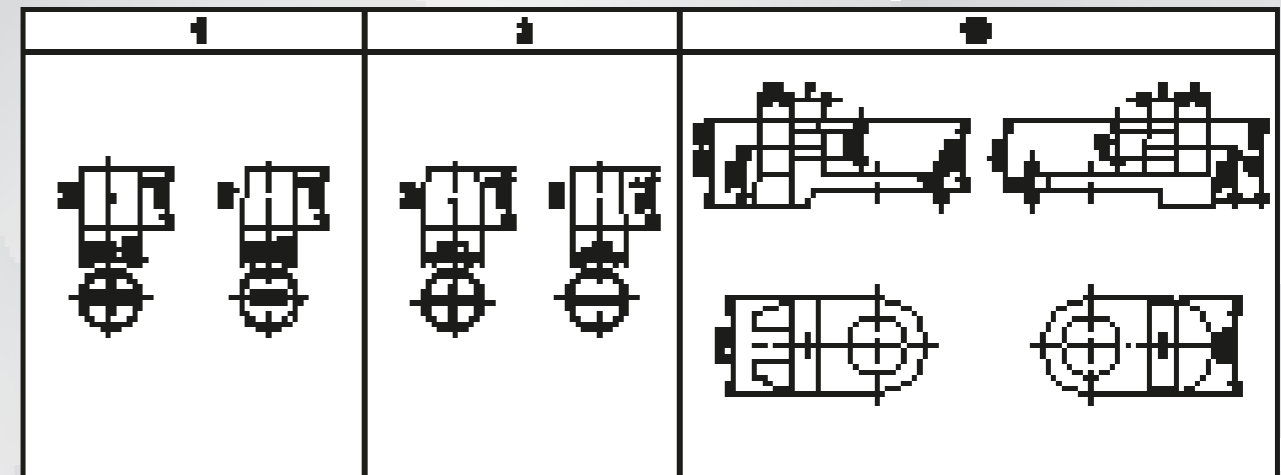
Type	Model	Part No.	Capacity (Ah)	CCA	RC	Length (mm)	Width (mm)	Height (mm)	Terminal 1	Terminal 2	Terminal 3	Terminal 4	Terminal Pitch (mm)
DC (Type B)	SD6180/120A	MF 60030	180	1250	1300	1	1	83	50	26	26	22	54.0
DC (Type C)	SD6200/120B	MF 70040	200	1250	1300	1	1	80					55.0
	SD6220/120B	MF 73039	220	1250	1300	1	1	80	58	27	26	22	57.5
	SD6250/140B	MF 75032	250	1450	1500	1	1	80	58	27	26	22	61.0

Type of Installation



Terminal

Connection Terminals



Hold Downs

