POYYET BATTERY

POYVET*
BATTERY

PROFESSIONALS' ADVICE

AUTOMOTIVE

Passenger and Light Commercial Vehicle Batteries











SFB TECHNOLOGY

Superior Flooded Battery Technology

Highly recommended acid type batteries designed with advanced quality and experience of Povver Battery for every class passenger and light commercial vehicles.

Areas of Application



















They are classified as Series 2 and Series 3 within varied capacities to fulfill the enegry required by the vehicles due to their equipment levels.

Series 2

High-tech products suitable for high-end vehicles.

Series 3

High performance products for vehicles with higher energy need.

Advantages



bup to 25% higher performance than standard batteries



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



A leakproof and maintanence-free and structure thanks to its completely closed cover



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



Patented Ca-Ca silver alloy grid technology



 QR and barcode system enabling tracking of products



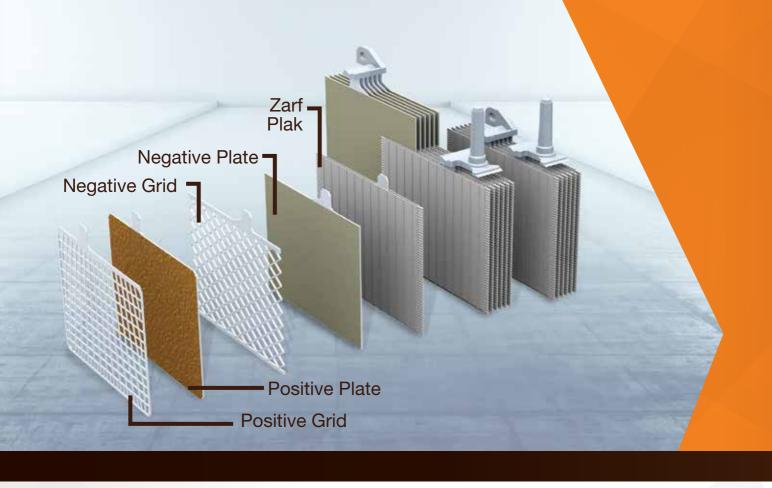
 More vibration resistant compared to standard batteries



 Advanced active material exclusively formulated for SFB technology



 Sealed maintenance-free safe lid technology



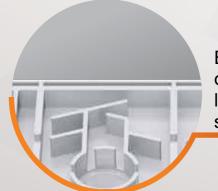
Sealed maintenance free safe lid technology technology Post — Terminal — SFB technology 12V 60Ah 600A (SAE) 540A (EN)



Higher performance and extended — life cycle due to advanced fully frame grid technology, manufactured with punch system

Exclusive design, ergonomic handle





Exclusively designed inside lid labyrinth structure



Flame arrestor

 Magic eye indicating battery state of charge



EFB TECHNOLOGY

Enhanced Flooded Battery

Specially designed floods batteries to meet higher energy needs of all vehicles equiped with START-STOP engines.

Areas of Application























Replace with same technology battery

Advantages



▶ Up to 2 times longer cycle life



products for START STOP vehicles supporting reduced carbon dioxide emission



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



material



Exclusively design securing up to 30% higher performance than standard batteries



(A) OFF

Advanced active exclusively designed for micro-hybrid START STOP technology



▶ Patented Ca-Ca silver alloy grid technology



More vibration resistant compared to standard batteries



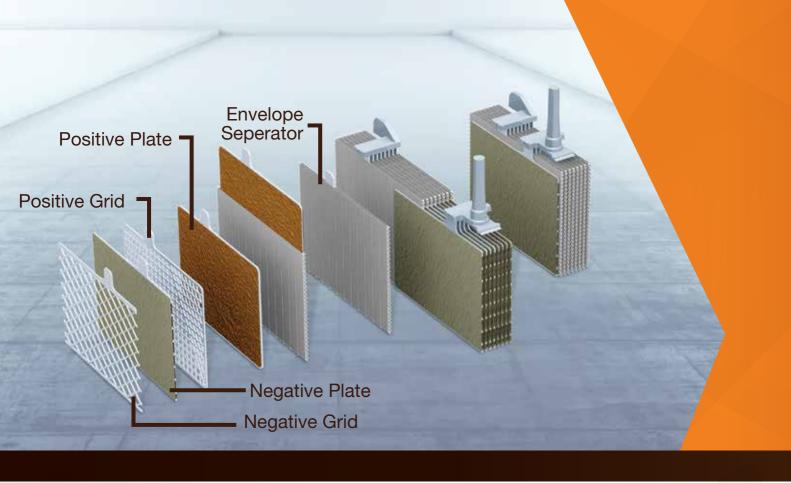
Sealed maintenance-free safe lid technology



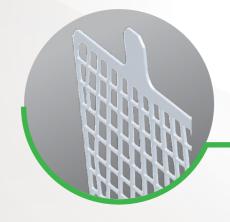
Higher performance under severe climate and working conditions compared to standard batteries



QR and barcode system enabling tracking of products







Higher circuit delivering performance and extended cycle life thanks to advanced fully framed punch grid technology.



Exclusively designed inside lid labyrinth structure



Flame arrestor

 Exclusive design, ergonomic handle



AGM **TECHNOLOGY**

Absorbent Glass Mat Battery

High quality VRLA (Valve Regulated Lead Acid Battery) type batteries specially developed to meet demanding needs of all START STOP vehicles designed to reduce fuel consumption and emission. Specially developed for high segment START STOP vehicles with regenerative breaking system.

Areas of Application























Replace with the same technology battery

Advantages



▶ Up to 3 times longer life cycle compared to standard batteries



Higher performance under severe climate and working conditions compared to



Exclusively designed valve system with pressure control (VRLA) and maintenance-fre e product standard batteries technology



Advanced active material exclusively designed for **AGM START STOP** technology



▶ Up to 40% higher performance than standard batteries



Increased vibration resistance compared to standard batteries



▶ QR and Innovative products for START STOP vehicles supporting reduced carbon dioxide emission



barcode

system

enabling

products

tracking of

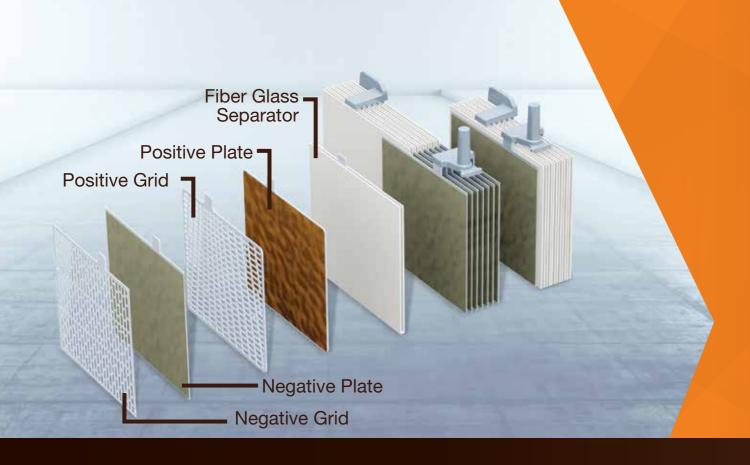
environmental friendly and sustainable



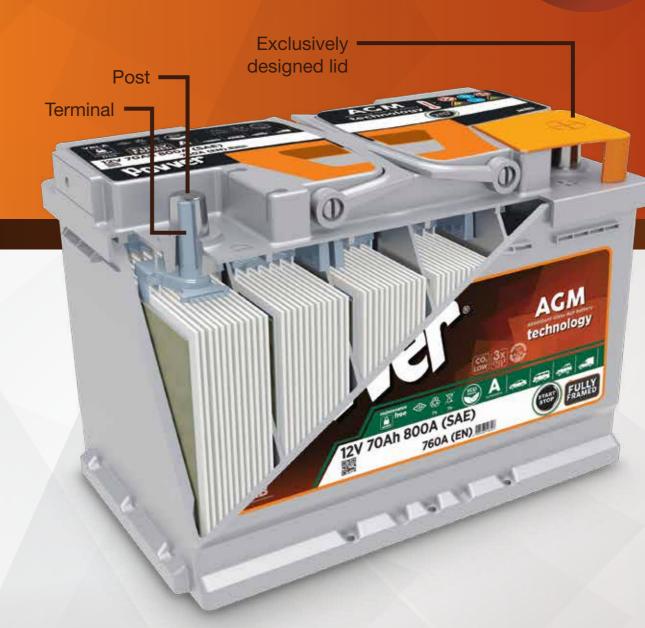
Nearly 100% Advanced recycling capability of all products make POVVER Ca-Ca silver technology



Quick charge acceptance for **START STOP** technology







- techniques

Strog structure supported by improved plate production •

Special Fiber Glass seperator



Exclusively designed valve system with ressure control (VRLA) and maintenance-free product technology

Fully framed cast grid •

technology

- It is specially developed for high end START STOP vehicles having a regenerative breaking system
- Exclusively designed for top segment START STOP cars with a regenerative braking system





















Advanced active material specifically designed for SFB technology



Advanced active materia specifically designed for EFB technology



Advanced active material specifically designed for AGM technology



Patented Ca-Ca silver alloy grid technology



Patented Ca-Ca silver alloy grid technology



Patented Ca-Ca silver alloy grid technology



Sealed maintenance-free lid technology



Sealed maintenance-free lid technology



Sealed maintenance-free lid technology



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

START STOP

AGM BATTERY

X

X



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



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



BATTERY REPLACEMENT CHART

REPLACED BATTERY OF THE VEHICLE

START STOP

EFB BATTERY

X

X

STANDARD

X

SFB superior Flooded Battery technology

EFB

technology

AGM

Up to 25% higher performance



Up to 30% higher performance



Up to 40% higher performance



Up to 2 times longer cycle life



Up to 3 times longer cycle life



Replace with same technology battery



Replace with same technology battery



Innovative products for START STOP vehicles supporting reduced carbon dioxide emission



Innovative products for START STOP vehicles supporting reduced carbon dioxide emission



RECYCLING ABOVE INDUSTRY STANDARDS

TSE ISO EN 14000 and TS EN ISO 50001 certified environment-friendly

50001 certified environment-friendly manufacturing facility

Nearly
100%
recycling capability
of all products

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

tons

Contribution to the environment and sustainability with **START STOP** batteries which help to reduce carbon dioxide emission

Higher energy efficiency acquired by purification through direct refining technology



PRODUCT DIMENSIONS LIST

SFB SERIES 2 JAPANESE (JIS) TYPE STARTER BATTERIES

	TYPE								Overa	Overall dime		(mm)		
вох	POVVER CODE	PART NUMBER	Capacity at 20 hour rate, +25 C Ah		CCA SAE (A)	Layout	Terminal	Holddown	Lenght (mm)	Width (mm)	Excluding Pole (mm)	Height (mm)	Weight With Ccid (kg.)	
	B24.45.036.A	SMF 50B24LS	45	360	400	0	1	ВО						
B24	B24.45.036.B	SMF 50B24RS	45	360	400	1	1	во		407	001	000	10.0	
(NS60)	B24.45.036.E	SMF 50B24L	45	360	400	0	3	ВО	237	127	201	222	12.0	000
	B24.45.036.F	SMF 50B24R	45	360	400	1	3	ВО						
D27	D23.60.052.C	SMF 55D23FL	60	520	550	0	1	B1	272	177	204	225	15.5	
D23	D23.60.052.D	SMF 55D23FR	60	520	550	1	1	B1	232	173	204	225	15.5	
D26	D26.70.063.C	SMF 80D26FL	70	630	680	0	1	B1	260	177	20.4	225	17.6	
(N50)	D26.70.063.D	SMF 80D26FR	70	630	680	1	1	B1	260	173	204	225	17.6	
D71 (N70)	D31.90.072.C	SMF 105D31FL	90	720	750	0	1	B1	700	175	202	224	22.0	
D31 (N70)	D31.90.072.D	SMF 105D31FR	90	720	750	1	1	B1	306	175	202	224	22.9	•

SFB SERIES 2 EUROPEAN (DIN) TYPE STARTER BATTERIES

	ТҮРЕ								Overa	all dime	ensions	(mm)		
вох	POVVER CODE	PART NUMBER	Capacity at 20 hour rate, +25 C Ah	CCA EN (A)	CCA SAE (A)	Layout	Terminal	Holddown	Lenght (mm)	Width (mm)	Excluding Pole (mm)	Height (mm)	Weight With Acid (kg.)	
LB1	LB1.44.036.A	SMF 54416	44	360	400	0	1	B13	207	175	175	175	11.3	Salar o
LB2	LB2.55.045.A	SMF 55559	55	450	480	0	1	B13	242	175	175	175	13.6	
L3	L3.72.064.A	SMF 57220	72	640	700	0	1	B13	278	175	190	190	17.7	
LS	L3.72.064.C	SMF 57264	72	640	700	0	1	B1	276	1/3	190	190	17.7	1
LB3	LB3.66.056.A	SMF 56618	66	560	600	0	1	B13	278	175	175	175	16.7	
LB4	LB4.80.074.A	SMF 58014	80	740	780	0	1	B13	315	175	175	175	19.1	
L5	L5.90.072.A	SMF 59018	90	720	750	0	1	B13	353	175	190	190	21.6	

PRODUCT DIMENSIONS LIST

SFB SERIES 3 JAPANESE (JIS) TYPE STARTER BATTERIES

	ТҮРЕ								Overa	all dime	ensions	(mm)		
вох	POVVER CODE	PART NUMBER	Capacity at 20 hour rate, +25 C Ah	CCA EN (A)	CCA SAE (A)	Layout	Terminal	Holddown	Lenght (mm)	Width (mm)	Excluding Pole (mm)	Height (mm)	Weight With Acid (kg.)	
	B20.42.035.E	SMF 46B20L	42	350	390	0	3	ВО						man Dark Ballandaria
B20	B20.42.035.F	SMF 46B20R	42	350	390	1	3	В0	196	134	202	222	10.5	V-1
(NS40)	B20.42.035.G	SMF 46B20FL	42	350	390	0	3	B1	190	154	202	222	10.5	0
	B20.42.035.H	SMF 46B20FL	42	350	390	1	3	B1						
B24	B24.55.045.E	SMF 65B24LS	55	450	480	0	1	В0	277	107	201	222	10.6	
(NS60)	B24.55.045.F	SMF 65B24RS	55	450	480	1	1	В0	237	127	201	222	12.6	0 0
D20	D20.55.045.C	SMF 55D20FL	55	450	480	0	1	B1	207	175	107	202	17.0	
D20	D20.55.045.D	SMF 55D20FR	55	450	480	1	1	B1	203	175	183	202	13.2	0
D23	D23.68.060.C	SMF 70D23FL	68	600	650	0	1	B1	232	173	204	225	16.25	
DZ3	D23.68.060.D	SMF 70D23FR	68	600	650	1	1	B1	232	1/3	204	223	10.23	
D26 (N50)	D26.80.066.C	SMF 95D26FL	80	660	720	0	1	B1	260	173	204	225	19.0	
D26 (N50)	D26.80.066.D	SMF 95D26FR	80	660	720	1	1	B1	260	1/3	204	223	19.0	
D71 (N70)	D31.100.085.C	SMF 115D31FL	100	850	900	0	1	B1	706	175	202	224	245	
D31 (N70)	D31.100.085.D	SMF 115D31FR	100	850	900	1	1	B1	306	1/5	202	224	24.5	0

SFB SERIES 3 EUROPEAN (DIN) TYPE STARTER BATTERIES

	TYPE								Overall dimensions (mn			(mm)		
вох	POVVER CODE	PART NUMBER	Capacity at 20 hour rate, +25 C Ah	CCA EN (A)	CCA SAE (A)	Layout	Terminal	Holddown	Lenght (mm)	Width (mm)	Excluding Pole (mm)	Height (mm)	Weight With Acid (kg.)	
L1	L1.50.042.A	SMF 55054	50	420	450	0	1	B13	207	175	190	190	12.5	The state of the s
	L2.60.054.A	SMF 56081	60	540	600	0	1	B13					15.1	
L2	L2.63.060.A	SMF 56319	63	600	650	0	1	B13	242	175	190	190	16.0	V Contract
	L2.63.060.B	SMF 56317	63	600	650	1	1	B13					10.0	-
L3	L3.75.072.A	SMF 57512	75	720	750	0	1	B13	278	175	190	190	18.2	
	L3.75.072.B	SMF 57513	75	720	750	1	1	B13	270	173	150	150	10.2	110 1
	L4.90.085.A	SMF 59042	90	850	900	0	1	B13	715	175	100	100	22.0	
L4	L4.90.085.B	SMF 59043	90	850	900	1	1	B13	315	175	190	190	22.0	To To
L5	L5.100.090.A	SMF 60056	100	900	950	0	1	B13	353	175	190	190	23.6	
L6	L6.110.092.A	SMF 61045	110	920	970	0	1	B13	394	175	190	190	26.5	

PRODUCT DIMENSIONS LIST

EFB START STOP BATTERIES

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	TYPE							Ovei	rall dime	nsions (mm)		
вох	POVVER CODE	Capacity at 20 hour rate, +25 C Ah	CCA EN (A)	CCA SAE (A)	Layout	Terminal	Holddown	Lenght (mm)	Width (mm)	Excluding Pole (mm)	Height (mm)	Weight With Acid (kg.)	
L2	EFB.L2.63.060.A	63	600	630	0	1	B13	242	175	190	190	16.7	
L3	EFB.L3.72.072.A	72	720	750	0	1	B13	278	175	190	190	19.1	
LB3	EFB.LB3.65.065.A	65	650	680	0	1	B13	278	175	175	175	17.9	
L4	EFB.L4.84.080.A	84	800	850	0	1	B13	315	175	190	190	22.0	
LB4	EFB.LB4.75.073.A	75	730	760	0	1	B13	315	175	175	175	20.7	
D23	EFB.D23.64.062.C	64	620	650	0	1	B01	232	173	204	225	16.5	
D26	EFB.D26.72.076.A	72	760	800	0	1	B01	260	173	204	225	18.4	









AGM START STOP BATTERIES

L2	AGM.L2.60.068.A	60	680	720	0	1	B13	242	175	190	190	18.0
L3	AGM.L3.70.076.A	70	760	800	0	1	B13	278	175	190	190	20.8
L4	AGM.L4.80.080.A	80	800	850	0	1	B13	315	175	190	190	23.5
L5	AGM.L5.95.090.A	95	900	950	0	1	B13	353	175	190	190	27.4









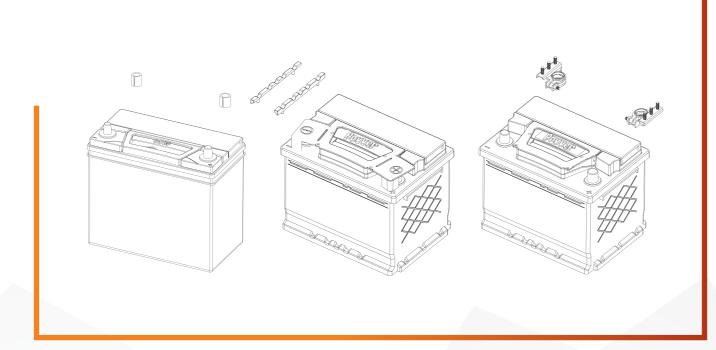
AGM MILITARY BATTERIES

D7 AGM.D7.120.120.C 120 1200 1300 2 1 B0 286 270 208 230 38.8	1)/	AGM.D7.120.120.C	120	1200	1300	2	1	В0	286	270	208	230	38.8
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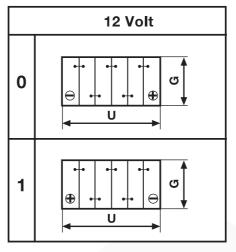
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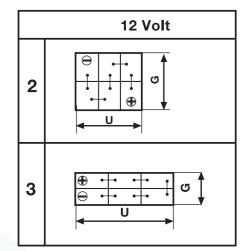
PRODUCT DIMENSIONS LIST

BATTERY CONNECTING APPARTUS -



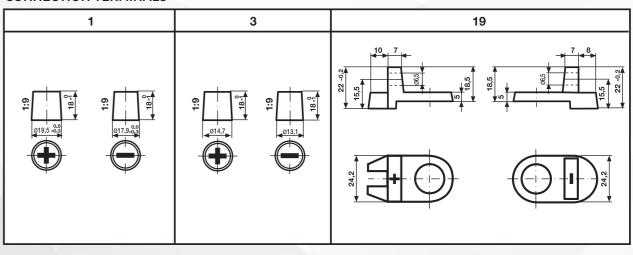
TYPES OF INSTALLATION





W= Width L= Lenght

CONNECTION TERMINALS



HOLD DOWNS

B 00	Without bottom connections		
B 01	3 hold downs	B 09	
B 03	3 hold downs 3 hold downs 100 max	B 13	5 hold downs 3 hold downs
B 04	3 hold downs	B 14	5 hold downs

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Poyver° Akii