

AUTOMOTIVE & COMMERCIAL RANGE OVERVIEW



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AUTOMOTIVE & COMMERCIAL



- Highly concentrated energy, providing high capacity and high starting power.
- Better corrosion resistance by use of advanced alloys.
- Better resistance to discharge & better recharge.
- Convenient carrying handles for ease of handling.
- Powerful CCA for Petrol & Diesel engines.
- Suitable for extreme hot & cold operating temperatures.
- AGM & EFB suitable for modern start stop vehicles.
- Complies with OEM specifications.



Performance Plus AGM - High Power Advanced

Features: Approximately 360,000 starts • For high specification including Start/Stop, regenerative braking and energy recovery • Absorbed Glass Mat construction with no free acid • Double lid (Leak/spill proof) VRLA • Integrated flame arrestor • OE Quality, Performance & Specification

Performance: Improved Dynamic Charge Acceptance (DCA) • Increased Cyclic Durability



Type	V	AH C20	CCA EN1	Dimensions (mm)			Weight Kg's	Layout	Case Type	Terminal	Hold-Down	Water Loss	Charge Retention	Vibration	Endurance
				L	W	TH									
012AGM	12	50	520	207	175	190	15.9	0	L1 DIN AGM	T1	B13	W5	C2	V3	M2
019AGM	12	92	850	354	175	190	27.2	0	L5 DIN AGM	T1	B13	W5	C2	V3	M3
020AGM	12	105	950	394	175	190	29.8	0	L6 DIN AGM	T1	B13	W5	C2	V3	M3
027AGM	12	60	640	242	175	190	17.0	0	L2 DIN AGM	T1	B13	W5	C2	V3	M3
096AGM	12	70	720	278	175	190	21.0	0	L3 DIN AGM	T1	B13	W5	C2	V3	M3
115AGM	12	80	800	315	175	190	24.2	0	L4 DIN AGM	T1	B13	W5	C2	V3	M3
MX5AGM	12	31	475	197	130	178	12	0	U1	T1	N	W5	C2	V2	E2

Performance Plus - EFB

Features: Approximately 270,000 starts • For lower specification Start/Stop vehicles
Sealed tip/tilt double lid - VDA roll over test compliant
High charge acceptance envelope type separators and anti-sulphation technology
Carbon/Lithium plate additives • Integrated flame arrestor • OE Quality, Performance & Specification

Performance: Improved Dynamic Charge Acceptance (DCA) • Increased cyclic durability



Type	V	AH C20	CCA EN1	Dimensions (mm)			Weight Kg's	Layout	Case Type	Terminal	Hold-Down	Water Loss	Charge Retention	Vibration	Endurance
				L	W	TH									
005EFB	12	65	620	232	173	225	16.8	0	D23 JIS EFB (Q55/Q85)	T1	N	W3	C2	V3	M1
014EFB	12	65	620	232	173	225	17.3	1	D23 JIS EFB (Q55R/Q85R)	T1	N	W3	C2	V3	M1
019EFB	12	100	850	353	175	190	24	0	L5 DIN EFB	T1	B13	W3	C2	V3	M1
027EFB	12	60	560	243	175	190	16.6	0	L2 DIN EFB	T1	B13	W3	C2	V3	M1
030EFB	12	72	720	260	173	225	19.3	0	D26 JIS EFB (S85/S95)	T1	N	W3	C2	V3	M1
031EFB	12	72	720	260	173	225	19.5	1	D26 JIS EFB (S85R/S95R)	T1	N	W3	C2	V3	M1
053EFB	12	45	450	238	128	227	13	0	B24 JIS EFB (N55)	T1/T3	N	W3	C2	V3	M1
054EFB	12	40	400	197	128	227	10.7	0	B20 JIS EFB (M42)	T1/T3	N	WS	C2	V3	M1
055EFB	12	40	400	197	128	227	10.7	1	B2- JIS EFB (M42R)	T1/T3	N	W3	C2	V3	M1
096EFB	12	70	700	278	175	190	19.3	0	L3 DIN EFB	T1	B13	W3	C2	V3	M1
100EFB	12	65	650	277	175	175	17.6	0	LB3 DIN EFB	T1	B13	W3	C2	V3	M2
110EFB	12	75	730	315	175	175	19.8	0	LB4 DIN EFB	T1	B13	W3	C2	V3	M2
115EFB	12	85	760	317	175	190	21.2	0	L4 DIN EFB	T1	B13	W3	C2	V3	M1
335EFB	12	80	780	305	173	225	22.5	0	D31 JIS EFB (T110)	T1	N	W3	C2	V3	M1

Performance Plus - SMF

Features: Approximately 30,000 starts • Calcium/Calcium plates
Integrated carrying handle • OE Quality, Performance & Specification

Performance: Up to 20% increase in cranking power



Type	V	AH C20	CCA EN1	Dimensions (mm)			Weight Kg's	Layout	Case Type	Terminal	Hold-Down	Water Loss	Charge Retention	Vibration	Endurance
				L	W	T H									
004SMF	12	50	400	202	173	225	12.9	1	D20 JIS	T1	N	W4	C2	V3	E1
005SMF	12	60	500	231	173	225	15.5	0	D23 JIS	T1	N	W3	C2	V2	E1
009SMF	12	30	300	167	129	224	8.6	0	B17 JIS	T3	N	W4	C2	V3	E1
012SMF	12	52	400	207	175	190	13.3	0	L1 DIN	T1	B13/B14	W3	C2	V2	E1
014SMF	12	60	500	231	173	225	15.5	1	D23 JIS	T1	N	W3	C2	V2	E1
017SMF	12	88	680	353	175	175	21.8	0	LB5 DIN	T1	B13	W3	C2	V2	E1
019SMF	12	95	750	353	175	190	24	0	L5 DIN	T1	B13	W3	C2	V2	E1
020SMF	12	110	900	394	175	190	26.3	0	L6 DIN	T1	B13	W4	C2	V3	E1
027SMF	12	62	510	242	175	190	16	0	L2 DIN	T1	B13	W3	C2	V2	E1
030SMF	12	70	570	258	174	225	18.4	0	D26 JIS	T1	N	W3	C2	V2	E1
031SMF	12	70	570	258	174	225	18.4	1	D26 JIS	T1	N	W3	C2	V2	E1
053SMF	12	45	400	238	129	225	12.4	0	B24 JIS	T1/T3	N	W3	C2	V2	E1
054SMF	12	36	330	187	127	227	9.3	0	B19 JIS	T1/T3	N	W3	C2	V2	E1
055SMF	12	36	330	187	127	227	9.3	1	B19 JIS	T1/T3	N	W3	C2	V2	E1
056SMF	12	36	330	187	136	227	9.3	0	B19 JIS	T1/T3	B1	W3	C2	V2	E1
057SMF	12	45	400	238	129	225	12.4	1	B24 JIS	T1/T3	N	W3	C2	V2	E1
063SMF	12	45	380	207	175	175	11.6	0	LB1 DIN	T1	B13/B14	W3	C2	V2	E1
068SMF	12	70	570	269	174	223	17.5	0	D26 JIS	T1	B9	W4	C2	V3	E1
069SMF	12	70	570	269	174	223	17.5	1	D26 JIS	T1	B9	W4	C2	V3	E1
075SMF	12	60	500	245	175	175	14.4	0	LB2 DIN	T1	B13/B14	W3	C2	V2	E1
077SMF	12	45	380	207	175	190	12.7	1	L1 DIN	T1	B13	W3	C2	V2	E1
078SMF	12	62	550	242	175	190	16	1	L2 DIN	T1	B13	W3	C2	V2	E1
086SMF	12	75	650	278	175	190	19	1	L3 DIN	T1	B13	W3	C2	V2	E1
096SMF	12	75	650	278	175	190	19	0	L3 DIN	T1	B13	W3	C2	V2	E1
100SMF	12	71	650	278	175	175	17.1	0	LB3 DIN	T1	B13/B14	W3	C2	V2	E1
102SMF	12	42	390	175	175	190	10.5	1	LO DIN	T1	B13	W4	C2	V3	E1
108SMF	12	50	400	202	173	225	12.9	0	D20 JIS	T1	B1	W4	C2	V3	E1
110SMF	12	80	680	315	175	175	17.2	0	LB4 DIN	T1	B13	W3	C2	V2	E1
115SMF	12	85	760	317	175	190	19.8	0	L4 DIN	T1	B13	W4	C2	V3	E1
116SMF	12	90	800	315	175	190	20.7	1	L4 DIN	T1	B13	W4	C2	V3	E1
202SMF	12	42	360	175	175	190	10.5	0	L0 DIN	T1	B13	W4	C2	V3	E1
205SMF	12	60	540	230	174	205	14.9	0	D23 LOW JIS	T1	B1	W4	C2	V3	E1
214SMF	12	60	540	230	174	205	14.9	1	D23 LOW JIS	T1	B1	W4	C2	V3	E1
334SMF	12	95	720	304	174	225	20.8	1	D31 JIS	T1	B1	W3	C2	V2	E1
335SMF	12	95	720	304	174	225	20.8	0	D31 JIS	T1	B1	W3	C2	W3	E1

THE CORRECT CHOICE OF AUTOMOTIVE OR COMMERCIAL BATTERY

When replacing a battery it is important to keep to the original battery technology. If the vehicle has "Start Stop" technology & is fitted with an AGM battery it MUST be replaced with an AGM battery of the correct specification, the same goes for EFB batteries.

NEVER reduce the technology in an attempt to reduce costs as this will only result in premature failure of the replacement battery & will invalidate the

warranty. If a standard flooded battery is fitted to a Start-Stop vehicle it will most definitely fail very early depending on driving patterns.

This type of battery failure will lead to a loss of vehicle functions (including Start-Stop). It will also mean considerable inconvenience for the customer and dissatisfaction with the replacement battery.



AUTOMOTIVE & COMMERCIAL



Performance American Range

Features: Approximately 20,000 starts • Integrated carrying handle • Calcium plates • OE Quality, Performance & Specification

Type	V	AH C20	CCA EN1	Dimensions (mm)			Weight Kg's	Layout	Case Type	Terminal	Hold-Down	Water Loss	Charge Retention	Vibration	Endurance
				L	W	T H									
111SMF	12	50	530	236	182	177	12.9	0	GR58 BCI	T1	B1	W4	C2	V3	E1
113SMF	12	50	530	236	182	177	12.9	1	GR58 BCI	T1	B1	W4	C2	V3	E1
750SMF	12	66	660	230	179	185	15	1	GR75 BCI	FT	B1	W4	C2	V3	E1
780SMF	12	74	740	260	183	185	16.7	1	GR78 BCI	FT	B1	W4	C2	V3	E1
AM80OV	12	80	600	300	186	190	16.4	1	GR79 BCI	T1	B1	W2	C2	V2	E1

Performance

Features: Approximately 20,000 starts • Remote flame arrestor on selected batteries • Central venting
Integrated carrying handle • Calcium/Calcium plates • OE Quality, Performance & Specification

Type	V	AH C20	CCA EN1	Dimensions (mm)			Weight Kg's	Layout	Case Type	Terminal	Hold-Down	Water Loss	Charge Retention	Vibration	Endurance
				L	W	H									
012MF	12	45	380	207	175	190	12.7	0	L1 DIN	T1	B13	W3	C2	V2	E1
015MF	12	40	350	239	135	202	10.5	1	A (British Leyland)	T1	B12	W3	C2	V2	E1
019MF	12	90	720	353	175	190	22.9	0	L5 DIN	T1	B13	W3	C2	V2	E1
027MF	12	56	480	243	175	190	15	0	L2 DIN	T1	B13/B14	W3	C2	V2	E1
037MF	12	35	330	238	135	206	9.7	0	A (FORD)	T4	B12	W3	C2	V2	E1
038MF	12	35	330	239	135	202	11.1	1	A (British Leyland)	T1	B12	W3	C2	V2	E1
048MF	12	45	350	220	135	225	13.1	0	E2 (Talbot)	T1	B1	W3	C2	V2	E1
049MF	12	45	350	220	135	225	13.1	1	E2 (Talbot)	T1	B1	W3	C2	V2	E1
063MF	12	40	360	207	175	175	11.4	0	LB1 DIN	T1	B13/B14	W3	C2	V2	E1
072MF	12	70	570	258	173	206	18.8	1	D26 Lid (Volvo)	T1	B14	W3	C2	V2	E1
075MF	12	56	470	243	175	175	13.7	0	LB2 DIN	T1	B13/B14	W3	C2	V2	E1
085MF	12	40	350	207	175	175	10.4	0	LB1 DIN	T4F	B13/B14	W3	C2	V2	E1
096MF	12	70	640	278	175	190	18.4	0	L3 DIN	T1	B13	W3	C2	V2	E1
097MF	12	54	470	242	175	175	12.8	0	LB2 DIN	T4F	B13/B14	W3	C2	V2	E1
100MF	12	70	640	278	175	175	15.8	0	LB3 DIN	T1	B13/B14	W3	C2	V2	E1

Super Heavy Duty-SMF

Features: Original equipment (OE) quality, performance and specification • Enhanced safety features including integrated flame arrestor & carrying handles • For occasional overnight stays where hotel loads are applied • Superior vibration resistance - V3
E2 Endurance rating - up to 150 cycles (50% DOD) • Fully maintenance free • Suitable for end of chassis location - V4

Type	V	AH C20	CCA EN1	Dimensions (mm)			Weight Kg's	Layout	Case Type	Terminal	Hold-Down	Water Loss	Charge Retention	Vibration	Endurance
				L	W	H									
627SMF	12	143	900	513	189	223	36.6	3	DIN A	T1	N	W3	C2	V4	E2
628SMF	12	143	900	513	189	223	36.6	4	DIN A	T1	N	W3	C2	V4	E2
629SMF	12	180	1125	511	222	215	45.3	3	DIN B	T1	N	W3	C2	V4	E2
630SMF	12	143	900	513	189	223	36.6	3	DIN A	T1	B3	W3	C2	V4	E2
632SMF	12	220	1150	516	274	236	55.8	3	DIN C	T1	N	W3	C2	V4	E2
640SMF	12	100	800	329	173	240	24	9	GR31A BCI	T1	N	W3	C2	V3	E2
641SMF	12	110	925	329	173	240	25	9	GR31S BCI	Thread	N	W3	C2	V3	E2
642SMF	12	110	925	329	173	240	25	9	GR31A BCI	T1	N	W3	C2	V3	E2
665SMF	12	112	870	346	173	234	25.5	0	Low Compact	T1	B1	W3	C2	V3	E2
669SMF	12	110	925	329	173	240	25	0	GR31A BCI	T1	N	W3	C2	V3	E2



Super Heavy Duty-EFB

Features: Original equipment (OE) quality, performance & specification • Designed for the rigours of commercial, agricultural & plant vehicle applications • Enhanced safety features including integrated flame arrestor & carrying handles • Premium choice for high power demands & end of chassis location • Next generation enhanced flooded technology suitable for vehicles with Start-Stop systems or standard ignition • For frequent overnight stays where hotel loads are applied • M1 Micro-cycle endurance - over 765 cycles (17.5% DOD) • Fully maintenance free with sealed double lid

Type	V	AH C20	CCA EN1	Dimensions (mm)			Weight Kg's	Layout	Case Type	Terminal	Hold-Down	Water Loss	Charge Retention	Vibration	Endurance
				L	W	T H									
625EFB	12	230	1250	516	274	236	56.2	3	DIN C	T1	N	W3	C2	V4	M1
629EFB	12	185	1150	511	222	215	46.2	3	DIN B	T1	N	W3	C2	V4	M1

Super Heavy Duty-SHD

Features: Advanced plate design • Increased service life over HD • Deep Cycle capabilities • Vibration Resistant
OE Quality, Performance & Specification

Type	V	AH C20	CCA EN1	Dimensions (mm)			Weight Kg's	Layout	Case Type	Terminal	Hold-Down	Water Loss	Charge Retention	Vibration	Endurance
				L	W	T H									
627SHD	12	143	900	513	189	223	37.6	3	DIN A	T1	N	W2	C2	V2	E2
629SHD	12	180	1100	513	223	223	44.9	3	DIN B	T1	N	W2	C2	V2	E2
657SHD	12	142	850	345	175	275	35.5	0	Tall Compact	T1	N	W3	C2	V2	E2
724SHD	12	225	1200	518	276	243	59.6	4	DIN C	T1	N	W3	C2	V2	E2
725SHD	12	255	1200	518	276	243	59.6	3	DIN C	T1	N	W3	C2	V2	E2

Heavy Duty-HD

Features: Advanced plate design • Deep cycle capabilities • Vibration Resistant • OE Quality, Performance & Specification

Type	V	AH C20	CCA EN1	Dimensions (mm)			Weight Kg's	Layout	Case Type	Terminal	Hold-Down	Water Loss	Charge Retention	Vibration	Endurance
				L	W	H									
615HD	12	135	910	514	175	210	32.5	3	MAC 110	T1	B3	W3	C2	V3	E1
616HD	12	110	680	407	176	234	29.6	0	E41 JIS	T1	N	W2	C2	V2	E1
618HD	12	110	680	407	176	234	29.6	1	E41 JIS	T1	N	W2	C2	V2	E1
622HD	12	135	900	510	216	210	38	3	MAC 143	T1	N	W2	C2	V2	E1
623HD	12	180	1100	513	223	223	44.9	4	DIN B	T1	N	W2	C2	V2	E1
624HD	12	200	1050	513	274	242	55	4	DIN C	T1	N	W2	C2	V2	E1
625HD	12	200	1050	513	274	242	55	3	DIN C	T1	N	W2	C2	V2	E1
627HD	12	120	680	513	189	223	33.6	3	DIN A	T1	N	W2	C2	V2	E1
629HD	12	170	1050	513	223	223	42	3	DIN B	T1	N	W2	C2	V2	E1
632HD	12	220	1150	513	274	242	57	3	DIN C	T1	N	W2	C2	V2	E1
633HD	12	140	900	360	253	240	40.8	6	Volvo	T1	B1	W2	C2	V2	E1
638HD	12	140	1100	508	175	205	36.5	0	Tractor	T1	B1	W2	C2	V2	E1
643HD	12	95	600	347	174	235	26	0	Low Compact	T1	N	W2	C2	V2	E1
644HD	12	95	600	347	174	235	26	1	Low Compact	T1	N	W2	C2	V2	E1
655HD	12	125	720	347	174	285	34	0	Low Compact	T1	N	W2	C2	V2	E1
656HD	12	125	720	347	174	285	34	1	Low Compact	T1	N	W2	C2	V2	E1
663HD	12	110	750	347	174	235	27.6	0	Low Compact	T1	N	W2	C2	V2	E1
664HD	12	110	750	347	174	235	27.6	1	Low Compact	T1	N	W2	C2	V2	E1
6TNHD	12	125	700	280	267	230	37.6	7	6TN	T1	N	W2	C2	V2	E1

Specialist & Garden

For Ride on mowers, kit cars & specialist applications • Supplied charged and ready to fit

Type	V	AH C20	CCA EN1	Dimensions (mm)			Weight Kg's	Layout	Terminal	Hold-Down
				L	W	H				
895OV	12	26	250	187	127	181	7.5	0	T4	N
896OV	12	26	250	187	127	181	7.5	1	T4	N
895SMF	12	30	330	194	126	183	7.8	0	T4	N
896SMF	12	30	330	194	126	183	7.8	1	T4	N

Keep Batteries Charged

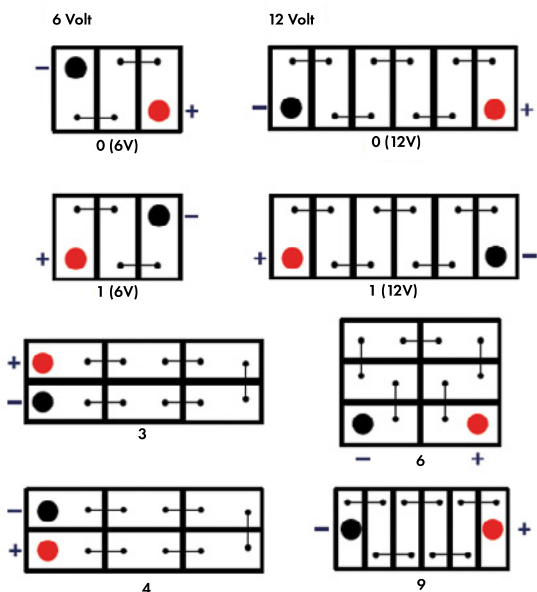
All batteries must be kept charged especially when not in frequent use



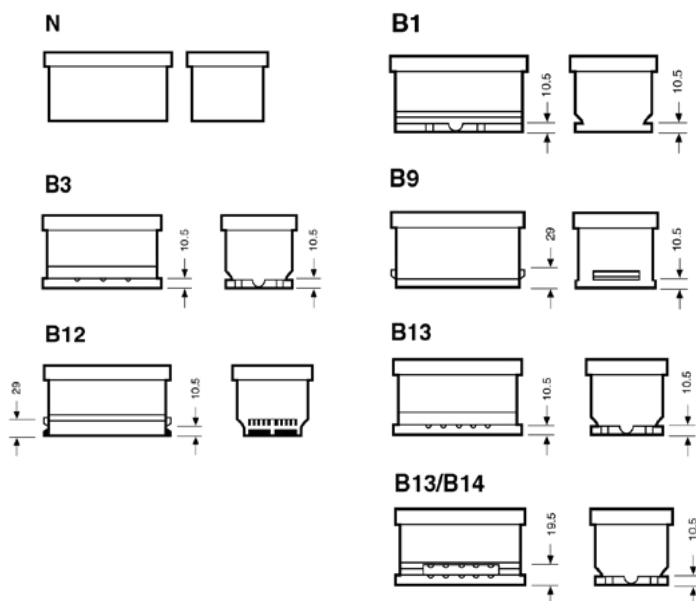
LAYOUT, CONTAINERS & TERMINALS



Cell Assembly Layout

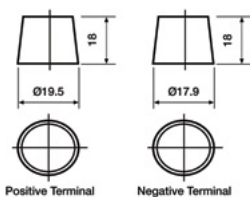


Hold-down & Container Features

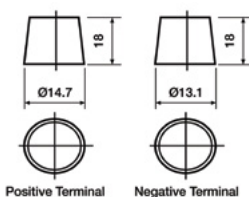


Terminal Configurations

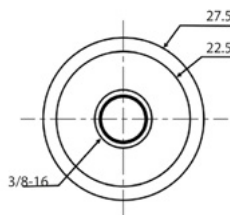
T1
Standard DIN post



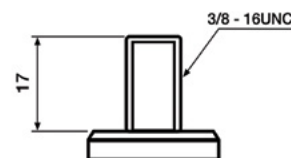
T3
Small Japanese JIS terminal



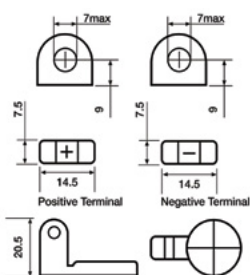
FT
US BCI group type



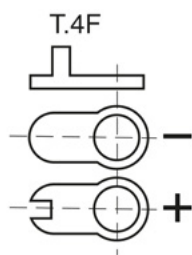
Thread
US BCI stud terminal



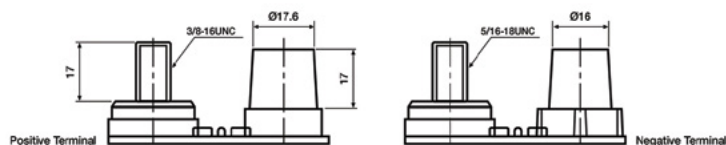
T4



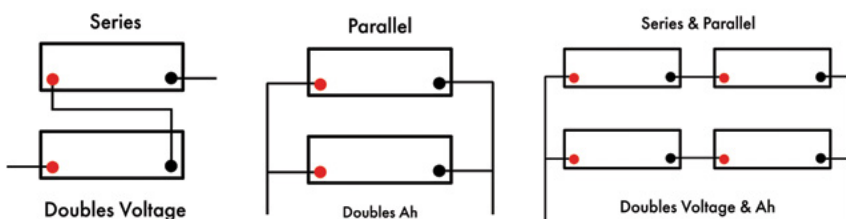
T4F



DT
Dual Terminals



Wiring Diagrams



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