



BUFFALO BULL SHD, SHD PRO

**STOP + GO, COLD START + CO: BUFFALO BULL SHD AND SHD PRO
PUTS FULL POWER INTO EVERY COMMERCIAL VEHICLE.
FROM THE DISTRIBUTOR TRUCK TO THE LINE BUS.**

Rugged, constant use in commercial vehicles puts batteries to the severest test. Moreover, over the years the demands made on modern batteries have increased greatly and in addition to cycle and vibration resistance, characteristics such as ease of maintenance, operational reliability and cold start performance are more important than ever. The optimised Buffalo Bull SHD constitutes the perfect response.

Stop + Go, Cold start + Co: The Buffalo Bull SHD PROfessional is a top product that starts to show its problem-solving capacity in tough situations, when other batteries have long given up the ghost. It has thus consolidated its solid position in the lucrative retrofitting market. The battery has been equipped by Banner with unbeatable advantages that make it the ideal battery for modern distributor trucks and line buses!

TECHNICAL DATA AND INFORMATION

- ▶ Meets the requirements of Mercedes trucks
- ▶ Maintenance-free: calcium technology ensures minimum water consumption
- ▶ ConCast mesh production process and optimised mesh design provide reliable cold start performance
- ▶ SHD means extra cycle/vibration resistance in the highest E4/V3 category pursuant to EN 50342-1
- ▶ Central degassing and patented four-chamber leak protection
- ▶ Captive, welded-in flame arrestors and safety screws
- ▶ PinFin protection against short circuits caused by tools
- ▶ EN 50342-4 casing height



Buses



Trucks



Construction machinery



Agricultural machinery



Snow groomers

BUFFALO BULL



Typ	Info	Box	Ah 20 h	A EN						Application				
Buffalo Bull EFB							Length	Width	Box height	Total height				
1	EFB 690 17		B	190	1050	3	1	514	223	195	220	mGGARZS	B00	Long-distance Trucks: MAN, Mercedes, Volvo, Scania, Steyr Trucks
2	EFB 740 17		C	240	1200	3	1	517	273	212	240	mGGARZS	B00	Long-distance Trucks: MAN, Mercedes, Volvo, Scania, Steyr Trucks
Buffalo Bull SHD PROfessional							Length	Width	Box height	Total height				
3	SHD PRO 645 03		A	145	800	3	1	514	189	195	220	mGGARZS	B00	Neoplan, MAN, Mercedes, Volvo, Scania, Steyr Trucks
4	SHD PRO 680 08		B	180	1000	3	1	514	223	195	220	mGGARZS	B00	Neoplan, MAN, Mercedes, Volvo, Scania, Steyr Trucks
5	SHD PRO 725 03		C	225	1150	3	1	517	273	212	240	mGGARZS	B00	Neoplan, MAN, Mercedes, Volvo, Scania, Steyr Trucks
Buffalo Bull SHD							Length	Width	Box height	Total height				
6	SHD 610 40		MAC 110	110	760	3	1	514	175	210	210	mGGARZS	B03	MAN, Mercedes, Roman, Robur
7	SHD 635 44		MAC 110	135	900	3	1	514	175	210	210	mGGARZS	B03	MAN, Mercedes, Roman
8	SHD 640 35		A	140	800	3	1	514	189	195	220	mGRZS	B00	Steyr Trucks, MAN, Mercedes
9	SHD 670 33		MAC 140	170	1000	3	1	514	218	210	210	mGGARZS	B03	MAN, Mercedes, Liaz
10	SHD 680 32		B	180	1000	3	1	514	223	195	220	mGRZS	B00	Steyr Trucks, MAN, Roman, Multicar
11	SHD 725 11		C	225	1150	3	1	517	273	212	240	mGRZS	B00	Steyr, MAN, Volvo-LKW
Buffalo Bull							Length	Width	Box height	Total height				
12	600 26			100	600	0	1	413	175	195	220	mG	B00	Mercedes D, Steyr Tractors, Daihatsu D, Barkas, Ursus
13	600 35			100	600	1	1	413	175	195	220	mG	B00	Daihatsu, Nissan, Mitsubishi D
14	605 02		BCI 31	105	1000	9	1	330	171	218	241	mGGA	B00	Caterpillar, US Trucks
15	610 11		Compact	110	800	0	1	344	172	214	230	mG	B01	Iveco Daily 01.05-, Renault
16	610 47		Compact	110	800	0	1	344	172	214	230	mG	B00	IHC, Massey Ferguson
17	610 48		Compact	110	800	1	1	344	172	214	230	mG	B00	IHC, McCormick
18	620 34		A	120	720	3	1	514	189	195	220	mG	B00/01	MAN, Mercedes, Roman, MAZ
19	625 11		Compact	125	760	0	1	345	172	260	283	mG	B00	Massey Ferguson
20	625 13		Compact	125	760	1	1	345	172	260	283	mG	B00	McCormick
21	625 23		NATO 6TN	125	720	2	1	280	267	213	230	mG	B00	NATO 6TN
22	632 11		MAC 132	132	900	0	1	508	174	205	205	mG	B01	CNH Case New Holland, John Deere, Landini, McCormick
23	640 35		A	140	760	3	1	514	189	195	220	mG	B00/01	Steyr Trucks, MAN, Mercedes
24	650 11		A	150	1150	3	1	514	189	195	220	mGGARZS	B00	Municipal vehicles (sweeper, high-pressure rinsing carts), snow groomers
25	680 11		B	180	1400	3	1	514	223	195	220	mGGARZS	B00	Municipal vehicles (sweeper, high-pressure rinsing carts), snow groomers
26	680 32		B	180	950	3	1	514	223	195	220	mG	B00	Steyr-Trucks, MAN, Roman, Multicar, Magirus
27	680 89		MAC 154	180	950	4	1	510	216	205	225	mGGA	B03	Fiat LKW, Tractors
28	725 11		C	225	1050	3	1	517	273	212	240	mG	B00	Steyr, MAN, Volvo-LKW, Caterpillar, Tatra

Double Top, = 4-chamber leak protection, RF = vibration-resistant, GA = battery with central degassing, HGI = hard rubber set, mG = with handle, RZS = flame arrester, * limited use, ** with base hold-down adapter