



COMMERCIAL VEHICLE & PLANT BATTERIES



BANNER FITTED BY:

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Banner

THE POWER COMPANY

Buffalo Bull AGM

Buffalo Bull EFB

New-To-Range THE MEGA POWER FOR LONG-DISTANCE HGVS



Featuring Absorbent Glass Matt technology, Buffalo Bull AGM delivers unrivalled starting power for today's commercial vehicles. Specifically designed to cope with short-distance journeys in distribution traffic, irregular driving profiles with stop-and-go traffic, and daily cold starts in icy temperatures, Buffalo Bull AGM also has the capacity to meet the ever-increasing range of a CV's additional electrical consumers, such as air conditioning, auxiliary heating, refrigerators, lights and entertainment systems.

TECHNICAL DATA & INFORMATION

- Valve regulated lead acid battery (VRLA)
- Offer of a standard battery size (housing C) with 210 Ah
- Three times the cycle stability compared to conventional SHD batteries, due to active mass formulation and mat supports
- Robust design and best vibration resistance thanks to special set fixing
- Improved corrosion resistance of the grids due to the use of continuous manufacturing processes
- No acid stratification due to Absorbent Glass Mat design
- Excellent charge absorption: regulator voltage of the vehicle is sufficient even for deeply discharged batteries
- Calcium technology ensures minimum water consumption
- Designed for highest energy demand due to increasing comfort functions in long-distance HGVs
- Optimal for integral rear mounting (EURO exhaust gas class 5/6)
- Central degassing with integrated backfire protection
- Add-ons to improve product safety: short-circuit protection, electrostatic discharge plugs
- Dimensions according to EN 50342-4:2009

New-To-Range THE POWER PACK FOR LONG-DISTANCE TRUCKS



Buffalo Bull EFB has been launched to meet the toughest requirements of today's long-distance trucks, which are more than just a means of transporting goods from A to B. Being the driver's workplace and home, Buffalo Bull EFB is capable of handling the maximum energy demands emanating from an increasing number of electrical consumers. Moreover, in the case of battery integration into the rear chassis, extreme vibration-resistance is essential.

TECHNICAL DATA & INFORMATION

- Range of three standard battery sizes (A, B and C boxes) with 150 Ah, 190 Ah and 240 Ah
- Increased cyclical resistance owing to the active mass recipe and glass fleece covers
- Robust design and maximum vibration resistance due to special set bonding
- Improved mesh corrosion resistance through the use of a continuous production process
- Calcium technology for minimal water consumption
- Designed for high energy requirements resulting from increasing comfort functions in long-distance trucks
- Maintenance-free (no topping up with water) under normal operating conditions
- Add-ons such as short-circuit protection and ESD plug for heightened product safety
- Central degassing with integrated flame arrestor
- Dimensions in accordance with EN 50342-4:2009



Banner Model	UK Number	Ah Capacity 20hr	A EN	Dimensions (mm) L x W x H
AGM 710 01	632 AGM OE	210	1200	517 x 273 x 240



Banner Model	UK Number	Ah Capacity 20hr	A EN	Dimensions (mm) L x W x H
EFB 650 17	637 EFB OE	150	850	513 x 180 x 220
EFB 690 17	629 EFB OE	190	1050	513 x 223 x 220
EFB 740 17	632 EFB OE	240	1200	517 x 273 x 240

Buffalo Bull

MEANS RELIABLE BRAND QUALITY



In choosing Buffalo Bull, those looking for a suitable and reliable starter battery for their commercial vehicles will have made just the right decision. This is because the Buffalo Bull is a brand battery with proven Banner quality.

TECHNICAL DATA & INFORMATION

- Niche and supplementary types for agricultural machinery and unusual commercial vehicles
- Simple maintenance due to the externally visible electrolyte level markings and practical screws
- Robust design with set bonding
- Bag separators for backfire protection and high starting current levels

Banner Model	UK Number	Ah Capacity 20hr	A EN	Dimensions (mm) L x W x H
60026	221/616	100	600	413 x 175 x 220
60035	221R	100	600	413 x 175 x 220
60502	Type 31/ Dp110	105	1000	330 x 171 x 241
61011	663 BH	110	720	344 x 172 x 230
61047	663	110	720	344 x 172 x 230
61048	664	110	720	344 x 172 x 230
62034	627	120	720	514 x 189 x 220
62511	647	125	760	345 x 172 x 283
62513	648	125	760	345 x 172 x 283
62523	6TN	125	720	280 x 267 x 230
63211	-	132	900	508 x 174 x 205
63511	655	135	760	345 x 172 x 283
63513	656	135	760	345 x 172 x 283
64035	637	140	760	514 x 189 x 220
68032	629 (180ah)	180	950	514 x 223 x 220
68089	623	180	950	510 x 216 x 205
70029	624	200	1000	517 x 273 x 240
72511	632	225	1050	517 x 273 x 240

Buffalo Bull SHD

IS THE NEW FORCE FOR COMMERCIAL VEHICLES



Rugged, constant use in commercial vehicles puts batteries to the severest test. Furthermore, 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.

TECHNICAL DATA & INFORMATION

- Maintenance-free calcium technology ensures minimum water consumption
- SHD means extra cyclical and vibration resistance with a top E4/V4 rating pursuant to EN 50342-1
- The use of special surge protectors with integrated backfire protection safeguards against battery leaks and ensures operational safety
- The ConCast production process and mesh design secure reliable cold start performance

Banner Model	UK Number	Ah Capacity 20hr	A EN	Dimensions (mm) L x W x H
SHD 61040	615 SHD	110	760	514 x 175 x 210
SHD 63544	630 SHD	135	900	514 x 175 x 210
SHD 64035	637 SHD	140	800	514 x 189 x 220
SHD 67033	MAC 140 SHD	170	1000	514 x 218 x 210
SHD 68032	629 SHD	180	1000	514 x 223 x 220
SHD 72511	632 SHD	225	1050	517 x 273 x 240

Buffalo Bull SHD PROfessional

The Buffalo Bull means
success born of innovation

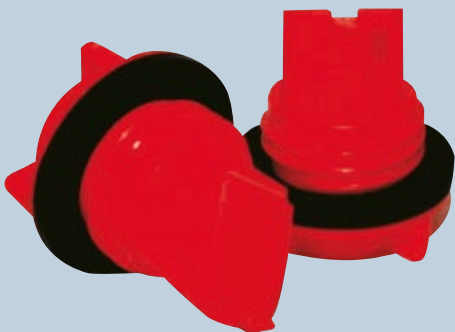
DECISIVELY MORE POWER FOR COMMERCIAL VEHICLES



The Buffalo Bull SHD PROfessional is a top product that really starts to show its problem-solving capacity in tough situations such as stop & go and cold starts, etc., when other batteries have long given up the ghost. The battery has consolidated its firmly established position in the premium battery retrofitting market. Indeed, Banner has equipped the Buffalo Bull with unbeatable advantages that make it ideal for modern trucks and buses.

TECHNICAL DATA & INFORMATION

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



TECHNOLOGY FOR GREATER SAFETY

Special surge protector safety screws are used in the Buffalo Bull. They have been developed by Banner in order to prevent battery acid leaks under extreme vibrations or vehicle tilting. In addition, reliable backfire protection is integrated into the surge protectors, thus fulfilling the first fitting demands of leading commercial vehicle manufacturers.



CONCAST FOR YET MORE POWER

Banner uses the continuous ConCast process for the production of negative mesh for both the SHD PROfessional and the SHD. The resulting advantages consist of increased frame stability and reduced production tolerances. New mesh and plate design provide optimum electrical conductance and ensure that the battery is insensitive to high current loads, which is a clear advantage for full cold start performance under all operational conditions.



Banner Model	UK Number	Ah Capacity 20hr	A EN	Dimensions (mm) L x W x H
SHD PRO 64503	637 SHD PRO	145	800	514 x 189 x 220
SHD PRO 68008	629 SHD PRO	180	1000	514 x 223 x 220
SHD PRO 72503	632 SHD PRO	225	1050	517 x 273 x 240



OPTIMUM LEAK PROTECTION THROUGH A FLAT LID AND CENTRAL DEGASSING

The Buffalo Bull SHD PROfessional makes an active contribution to working/operational safety. Patented, four-chamber leak protection and central degassing, integrated, captive backfire protection, safety screws and innovative “PinFin” short circuit protection round off the safety package. Battery dimensions in line with EN 50342 Part 4 guarantee optimum installation capacity.

POWER BEYOND ORDINARY



t 01889 571100
www.bannerbatteries.com

