

# SHD

## COMMERCIAL AND HEAVY DUTY BATTERIES

### SUPER HEAVY DUTY

Advanced starting power. Standard electrical equipment.

Professional SHD is produced with glass fiber separators which offers higher cycling ability. Its design provides enhanced vibration resistance and great endurance and service life. Recommended for commercial and heavy-duty vehicles with standard electrical equipment.



FEATURES

- ADVANCED STARTING POWER
- GLASS FIBER SEPARATORS > HIGHER CYCLING STABILITY
- ENHANCED VIBRATION RESISTANCE
- ADVANCED ENDURANCE AND SERVICE LIFE
- VEHICLES WITH STANDARD ELECTRICAL EQUIPMENT

Model	Article number	Voltage (V)	Capacity Ah (20hr)	CCA A (EN)	Length (mm)	Width (mm)	Height (mm)	Total height (mm)	Layout	Terminal	Hold Down
SHD 62034	ACLPV SHD62034N	12	120	680	513	189	200	220	☐	1	-
SHD 63013	ACLPV SHD63013N	12	130	680	514	218	210	210	☐	1	-
SHD 63539	ACLPV SHD63539N	12	135	900	514	175	210	210	☐	1	B3
SHD 64020	ACLPV SHD64020N	12	140	760	513	189	200	220	☐	1	-
SHD 68019	ACLPV SHD68019N	12	180	1000	514	218	190	210	☐	1	B3
SHD 68034	ACLPV SHD68034N	12	180	1000	513	223	203	223	☐	1	-
SHD 68089	ACLPV SHD68089	12	180	1000	514	218	190	210	☐	1	B3
SHD 73011	ACLPV SHD73011N	12	230	1150	514	276	222	242	☐	1	-

# HD

## COMMERCIAL AND HEAVY DUTY BATTERIES

### HEAVY DUTY

Reliable starting power. Basic electrical equipment.

Professional HD is a powerful and reliable starter battery. Its robust design is characterized by a high degree of vibration resistance. Ideal for light commercial and special vehicles (for example the NATO battery for military vehicles) with basic electrical equipment without special requirements in terms of cycling and vibration.



FEATURES

- RELIABLE STARTING POWER
- WIDE RANGE OF BATTERIES
- VEHICLES WITH BASIC ELECTRICAL EQUIPMENT

Model	Article number	Voltage (V)	Capacity Ah (20hr)	CCA A (EN)	Length (mm)	Width (mm)	Height (mm)	Total height (mm)	Layout	Terminal	Hold Down
HD 60013	ACLPV HD60013N	12	110	640	286	260	206	226	☐	1	-
HD 60026	ACLPV HD60026N	12	100	780	404	173	207	226	☐	1	-
HD 60035	ACLPV HD60035N	12	100	780	404	173	207	226	☐	1	-
HD 60527	ACLPV HD60527N	12	105	680	345	173	210	230	☐	1	-
HD 60528	ACLPV HD60528N	12	105	680	345	175	210	230	☐	1	-
HD 60530	ACLPV HD60530N	12	105	680	345	175	210	230	☐	1	B1
HD 61530	ACLPV HD61530N	12	115	800	345	175	210	230	☐	1	B1
HD 62512	ACLPV HD62512N	12	125	720	345	175	285	285	☐	1	-
HD 62514	ACLPV HD62514N	12	125	720	345	175	285	285	☐	1	-
HD 63527	ACLPV HD63527N	12	135	760	360	253	212	232	☐	1	-

# COMMERCIAL AND HEAVY DUTY BATTERIES

## DYNAC PROFESSIONAL



# DYNAC PROFESSIONAL

DYNAC Professional is a vast range of batteries for commercial and heavy-duty vehicles including batteries for end-of-frame installation (EURO 6) with highest vibration resistance (V3). DYNAC Professional is the ideal choice for modern vehicles with advanced electrical equipment and high power consumption. Available in series HD, SHD, SMF and EFB ranging from 100Ah to 230Ah.

## ConCast – the latest production technology

Series SHD and SMF are recently improved and produced according to ConCast technology in which optimal quality grids are created. The innovation is that not only the negative grids but also the positive grids are produced with this technology. This innovative method of positive plate production eventually offers premium quality batteries with better cycling ability and longer life expectancy. The product line is fully automated and there is no waste during the production process.

## ConCasted Grid – advantages

- Large contact surface that allows greater usability of the active material.
- High grid strength due to two-stage rolling, immediately after casting.
- High corrosion resistance - a major limiting factor for the robustness of positive grid.
- New improved geometry of the grid for better current output.



## BATTERY SELECTION BY FEATURES

	VALUE FOR MONEY	ONBOARD EQUIPMENT LEVEL	VIBRATION RESISTANCE	CYCLING CAPABILITY	STARTING CAPABILITY	WATER CONSUMPTION
<b>EFB</b>	★★★★★	★★★★	★★★	★★★★	★★★★★	very low
<b>SMF</b>	★★★	★★★	★★	★★★	★★★★	very low
<b>SHD</b>	★★★	★★★	★★	★★★	★★★	low
<b>HD</b>	★★	★★	★★	★★	★★★	low

## BATTERY SELECTION BY VEHICLE

	LONG-HAUL TRUCK EURO 6	CITY BUS	EXPRESS DELIVERY VEHICLES	MUNICIPAL / EMERGENCY VEHICLES	COACH	CONSTRUCTION MACHINES	TRACTORS / AGRICULTURAL VEHICLES	OLDER GENERATION COMMERCIAL VEHICLES
<b>EFB</b>	recommended	recommended	recommended	recommended	applicable	applicable	applicable	applicable
<b>SMF</b>	-	-	-	-	applicable	applicable	applicable	applicable
<b>SHD</b>	-	-	-	-	applicable	applicable	applicable	applicable
<b>HD</b>	-	-	-	-	-	-	applicable	applicable

# EFB

## COMMERCIAL AND HEAVY DUTY BATTERIES

### ENHANCED FLOODED BATTERY

**Newest EFB technology. Advanced electrical equipment.**

Professional EFB is designed with improved casted plates fixed with hot melt resin as well as added polyester scrim and glass fleece to the plates. These result in superb vibration resistance (V3) and cyclability. A specially designed acid circulation system is added to reduce stratification to a minimum which is keeping performance high and extends battery life. Mandatory for modern commercial and heavy-duty vehicles with advanced electrical equipment.



**FEATURES**

- SUPERIOR STARTING POWER
- NEW EFB TECHNOLOGY WITH CASTED GRIDS CONSTRUCTION
- HIGHEST VIBRATION RESISTANCE V3 > IDEAL FOR END-OF-FRAME INSTALLATION (EURO6)
- HIGH CYCLING PERFORMANCE AT 50% DOD
- ADDED CARBON FIBER ADDITIVES FOR SUPERIOR CHARGE ACCEPTANCE
- RELIABLE ENERGY SUPPLY ALSO DURING EXTENDED ENGINE-OFF PERIODS (HOTEL FUNCTION)
- MODERN VEHICLES WITH ADVANCED ELECTRICAL EQUIPMENT

Model	Article number	Voltage (V)	Capacity Ah (20hr)	CCA A (EN)	Length (mm)	Width (mm)	Height (mm)	Total height (mm)	Layout	Terminal	Hold Down
EFB 680500110	EFB 680500110	12	180	1100	513	223	223	223	☐	1	-
EFB 725500125	EFB 725500125	12	225	1250	514	276	222	242	☐	1	-

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# SMF

## COMMERCIAL AND HEAVY DUTY BATTERIES

### SEALED MAINTENANCE FREE

**Superior starting power. High electrical equipment.**

Professional SMF is produced with an advanced labyrinth system for recombination of gasses which reduces water loss. Its design provides enhanced safety due to integrated flame arrestors and excellent endurance and service life. Ideal for modern commercial and heavy-duty vehicles with high electrical equipment.



**FEATURES**

- SUPERIOR STARTING POWER
- ADVANCED LABYRINTH SYSTEM > RECOMBINATION OF GASES AND REDUCED WATER LOSS
- ENHANCED SAFETY
- EXCELLENT ENDURANCE AND SERVICE LIFE
- 100% MAINTENANCE FREE
- MODERN VEHICLES WITH HIGH ELECTRICAL EQUIPMENT

Model	Article number	Voltage (V)	Capacity Ah (20hr)	CCA A (EN)	Length (mm)	Width (mm)	Height (mm)	Total height (mm)	Layout	Terminal	Hold Down
64020 SMF	LMFV 64020SMF	12	140	760	513	189	200	220	☐	1	-
68034 SMF	LMFV 68034SMF	12	180	1000	513	223	203	223	☐	1	-
73011 SMF	LMFV 73011SMF	12	230	1150	518	276	222	242	☐	1	-

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