



AUTOMOTIVE BATTERIES

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Caution

• Provide ventilation if operating in enclosed areas • Use battery only for 12V automotive usage • Pay attention to directions for use • Battery acid – shield eyes and avoid contact with skin, eyes or clothing. In the event of an accident, flush with water and call a physician immediately • No smoking – keep away from naked flames and sparks • In case of sparks, do not wipe battery with dried textile • Explosive gas – keep away from children • Maintenance Free product is sealed. Do not open top cover to add liquids • Store and transport in upright position



Flammable



Keep out of reach of children



Read instructions carefully



Shield eyes



Sulphuric acid used



Explosive



Xcelerate Ca-Ca SMF



Xcelerate Pro Ca-Ca SMF

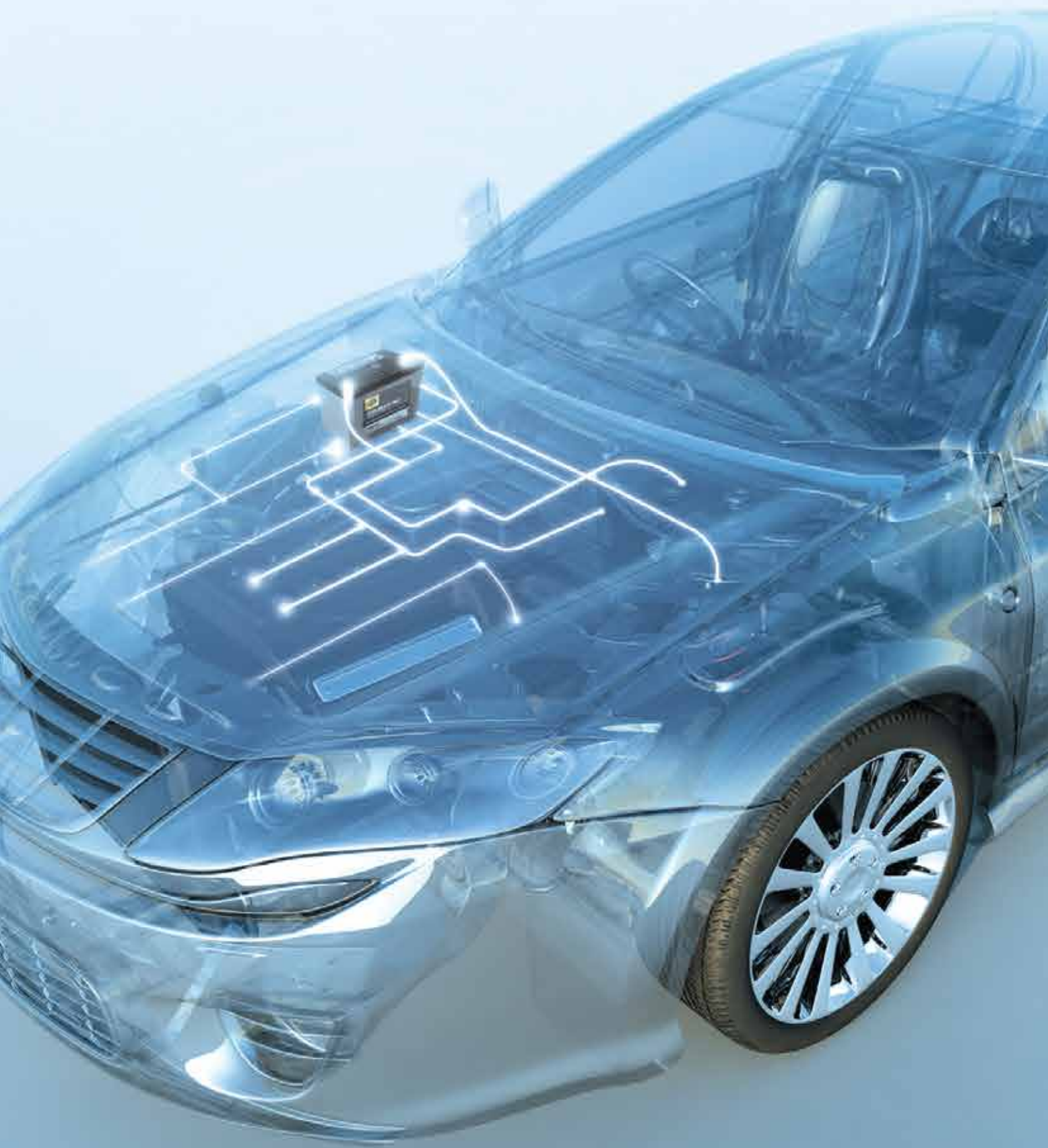


Xcelerate Ultra EF



Xcelerate Ultra+ AGM

Power and Ultimate Performance



HELLA Xcelerate Range of Batteries Symbol of Power and Ultimate Performance

The comprehensive range of sealed maintenance free (SMF) automotive batteries from HELLA is specifically developed to deliver optimal and enhanced starting power for a new generation of demanding motoring technology.

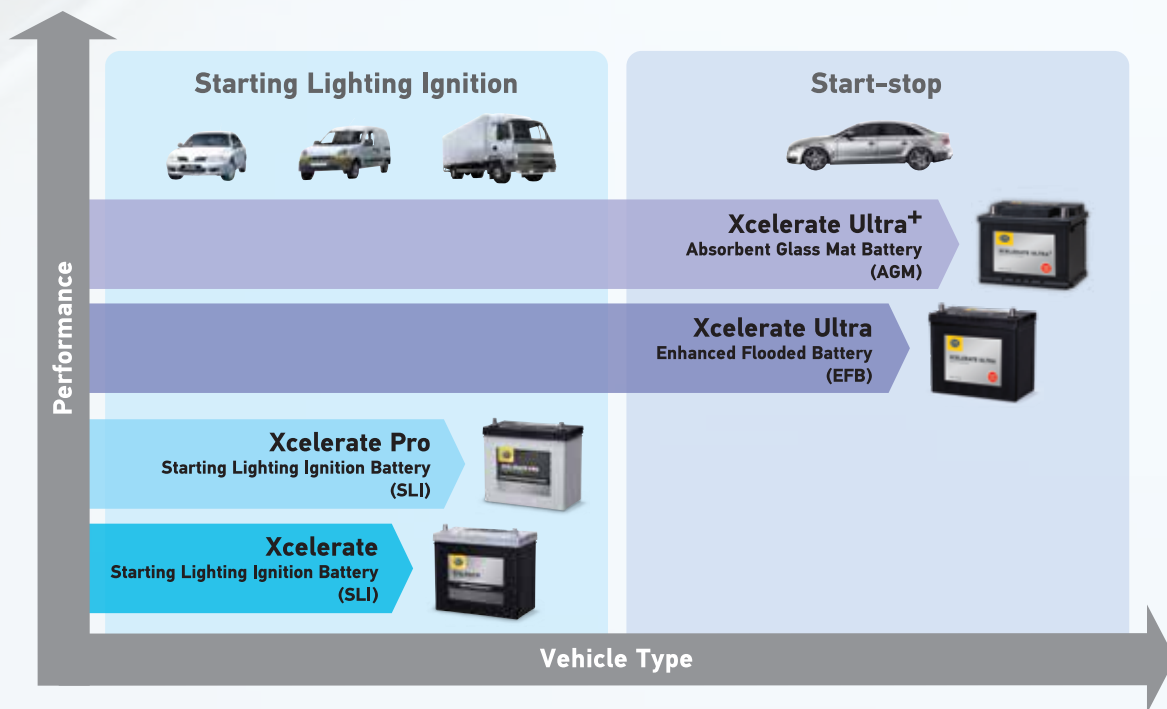
With more than 100 years of expertise and one of the leading automotive parts manufacturers working in partnership with OE car manufacturers, quality assurance and excellent performance is HELLA's commitment and promise to the automotive world.

HELLA's new range of sealed maintenance free batteries is designed to power your vehicle with the highest performance and unrivalled durability.

HELLA offers the newest line-up of Xcelerate, Xcelerate Pro, Xcelerate Ultra and Xcelerate Ultra+ batteries. HELLA batteries offer the most reliable supply of energy required to start the engine in meeting the demanding current required in today's modern automobile technology.

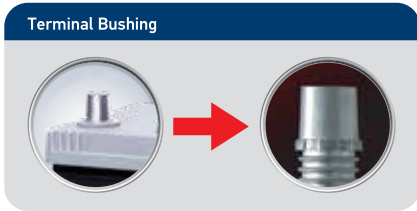
From a battery that is uniquely designed with the customer in mind and able to withstand harsh elements – HELLA has a battery for every automotive needs.

Xcelerate Automotive Battery Application Chart

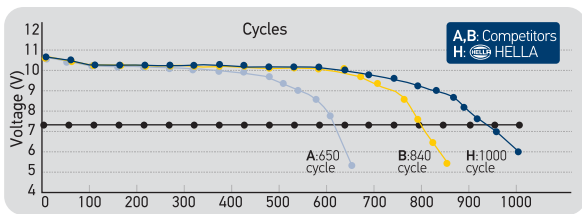


Main Features of HELLA Batteries

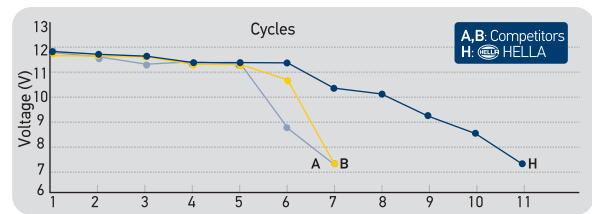
- Designed to keep the electrolyte at its maximum level against water evaporation at high temperature.
- Cold-forged terminal structure guards against grid corrosion and leakage.



- Extended battery lifespan with the adoption of spun-bonded paper and active materials on positive plates.



- High Sn grid prolongs durability and anti-corrosion properties.



Ranking in lifespan under overcharging in high temperature

Battery Structure - Xcelerate and Xcelerate Pro Starting Lighting Ignition (SLI) Technology

Double Lid

- Double lid with handle
- Hydrometer which indicates the accurate charging status



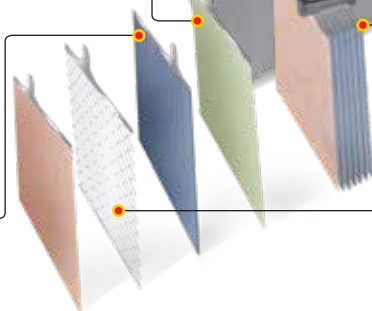
Cold Forging Terminal

- Terminal structure against grid corrosion and leakage



Wrought Lead-Calcium Grids

- Hard paste application
- Active material structure enhancing combination
- Maximized charging acceptance
- Maximized life cycle



Low-Resistance Envelope Separators

- Hot-melt application for improving vibration durability



- PE Separator which minimizes resistance
- Maximized engine starting function

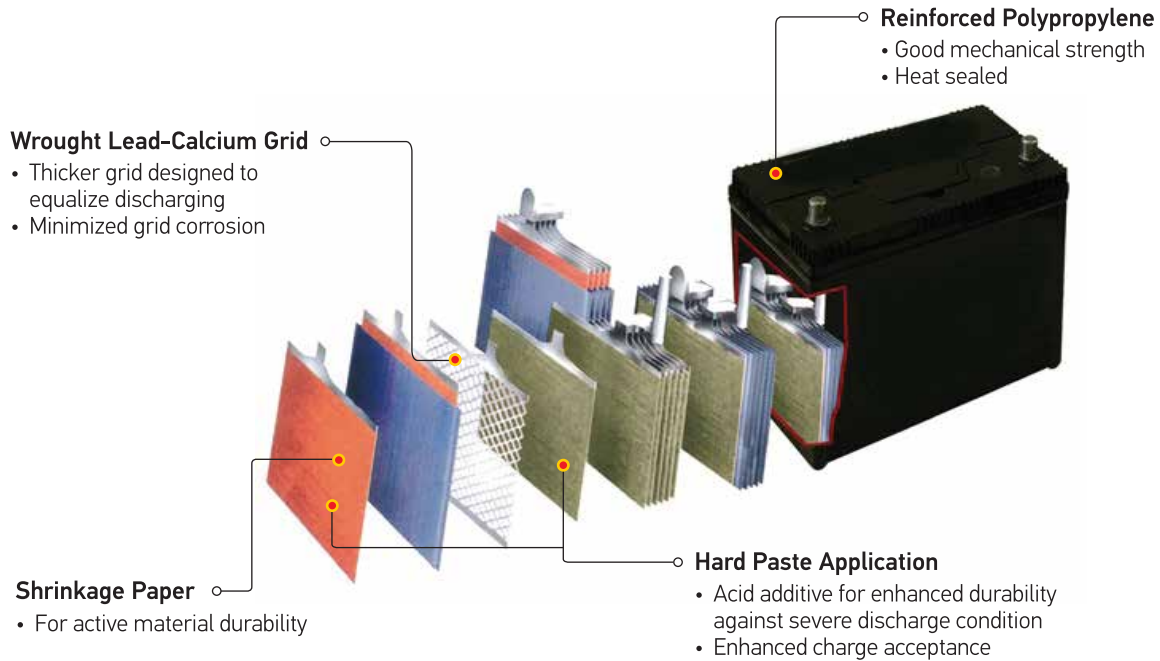
Wrought Lead-Calcium Grids-Diamond Mesh

- Expanded Lead-Calcium-Tin alloy plate which strengthens durability
- Minimized water consumption
- Minimized self discharge



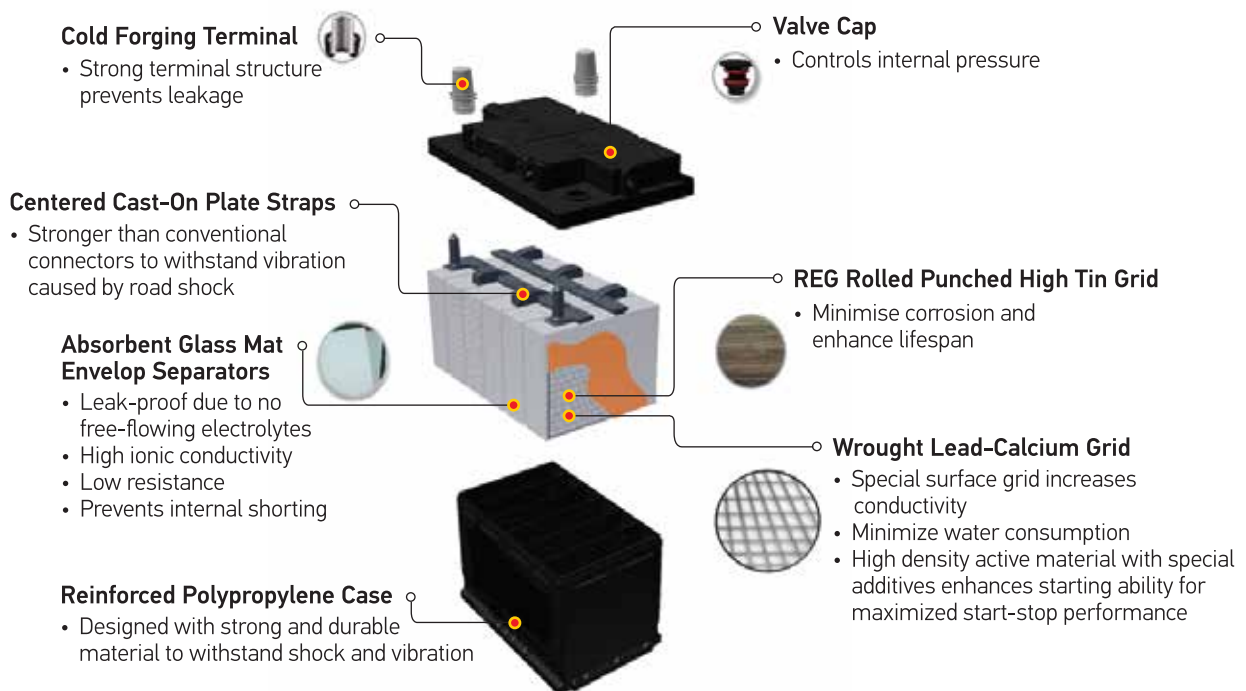
Battery Structure - Xcelerate Ultra

Enhanced Flooded Battery (EFB) Technology



Battery Structure – Xcelerate Ultra⁺

Absorbent Glass Mat (AGM) Technology





XCELERATE - SLI

Optimal Starting Power

HELLA Xcelerate range of batteries is particularly suitable for new generation vehicles that are equipped with modern electronics.

- Full factory sealed without the need to top up
- Fully tropicalized
- Plate maximized for durability & capacity
- Comprehensive range coverage



XCELERATE PRO - SLI

Enhanced Starting Power and Durability

HELLA Xcelerate Pro range of batteries offers higher lifespan and performance. It is the best in its class for quality for lead acid batteries, ideal for the modern designed vehicles with sophisticated technologies requiring that dose of extreme performance required for demanding urban city driving.

- Full factory sealed without the need to top up
- Fully tropicalized
- Increased lead content to prolong lifespan and capacity
- Enhanced plate structure and active materials paste
- Enveloping developed for maximum engine starting
- Comprehensive range coverage



XCELERATE ULTRA - EFB

Supreme Starting Power and Durability

The HELLA Xcelerate Ultra is best in its class for quality in the field of lead acid batteries and is ideal for modern designed vehicles with complex technologies requiring that dose of extreme performance. The battery is constructed to deliver maximum performance and reliable starting.

- Enhanced charge acceptance
- Ability to withstand ongoing discharging and charging
- High cranking power
- Higher cycle life - up to 2 times more cycle life than standard flooded lead acid batteries
- High resistance to vibration
- Environmental sustainability - reduction in CO² emission



XCELERATE ULTRA⁺ - AGM

Supreme Starting Power and Durability

Developed based on AGM technology, the HELLA Xcelerate Ultra⁺ range of batteries is designed with advanced start-stop technology. With superior charge acceptance and the ability to deep cycle, the battery delivers unparalleled performance in cranking power, reliability and significantly higher service life.

The HELLA Xcelerate Ultra⁺ AGM battery is particularly ideal for premium vehicles with advanced start-stop functions and sophisticated electronics.

- Enhanced life cycle performance - up to 200% more cycle life than standard flooded lead acid batteries
- High cranking power - up to 65% higher than standard flooded lead acid batteries
- High resistance to vibration
- Spill-proof - no fear of acid leakage



XCELERATE

Description	Part Number	20Ah Rate (Ah)	RC (Min)	CCA (A)	CCA Norm	Length (mm)	Width (mm)	Total Height (mm)	Terminal	Cell Layout	Hold Down
54519	8EB 354 791-001	45	78	220	DIN	245	175	175	STD	(- +)	B4
55414	8EB 354 791-011	54	94	265	DIN	277	175	175	STD	(- +)	B3/B4
55559	8EB 354 791-021	55	94	265	DIN	245	175	190	STD	(- +)	B3
55565	8EB 354 791-031	55	94	265	DIN	245	175	190	STD	(+ -)	B3
56318	8EB 354 791-041	63	110	320	DIN	277	175	175	STD	(- +)	B3/B4
56638	8EB 354 791-051	66	110	320	DIN	278	175	190	STD	(- +)	B3
57220	8EB 354 791-061	72	120	350	DIN	278	175	190	STD	(- +)	B3
58827	8EB 354 791-071	88	148	410	DIN	353	175	190	STD	(- +)	B3
56219	8EB 354 791-081	62	100	320	DIN	245	175	190	STD	(- +)	B3
58014	8EB 354 791-091	80	135	380	DIN	315	175	175	STD	(- +)	B3
58515	8EB 354 792-171	85	150	420	DIN	354	175	175	STD	(- +)	B3
60044	8EB 354 791-121	100	180	800	EN	353	175	190	STD	(- +)	B3
67018	8EB 354 791-131	170	320	970	EN	508	222	220	STD	(±)	-
73011	8EB 354 791-141	230	430	1100	EN	518	273	241	STD	(±)	-
34-550	8EB 354 791-151	50	84	550	BCI	260	171	205	STD	(+ -)	10
31-930	8EB 354 791-161	105	200	930	BCI	330	173	240	STD	center	-
31-930T	8EB 354 791-171	105	200	930	BCI	330	173	240	STUD	center	-
58-530	8EB 354 791-181	52	88	530	BCI	236	183	177	STD	(+ -)	21
65-660	8EB 354 791-191	70	117	650	BCI	292	189	191	STD	(+ -)	21
75-615	8EB 354 791-201	56	93	600	BCI	231	179	185	SIDE	(+ -)	17
78-760	8EB 354 791-211	69	115	750	BCI	260	179	185	SIDE	(+ -)	17
78DT-760	8EB 354 791-221	69	115	750	BCI	260	179	205	DUAL	(+ -)	17
40B19R	8EB 354 791-231	30	49	300	SAE	187	127	226	SMALL	(+ -)	-
40B19R-BHD	8EB 354 791-241	30	49	300	SAE	187	127	226	SMALL	(+ -)	B1
40B19L	8EB 354 791-251	30	49	300	SAE	187	127	226	SMALL	(- +)	-
40B19L-BHD	8EB 354 791-261	30	49	300	SAE	187	127	226	SMALL	(- +)	B1
32C24R	8EB 354 791-271	34	57	330	SAE	238	129	225	STD	(+ -)	-
32C24L	8EB 354 791-281	34	57	330	SAE	238	129	225	STD	(- +)	-
46B24R	8EB 354 791-291	42	70	400	SAE	238	129	225	SMALL	(+ -)	-
46B24R-BHD	8EB 354 791-301	42	70	400	SAE	238	129	225	SMALL	(+ -)	B1
46B24L	8EB 354 791-311	42	70	400	SAE	238	129	225	SMALL	(- +)	-
46B24L-BHD	8EB 354 791-321	42	70	400	SAE	238	129	225	SMALL	(- +)	B1
46B24RS	8EB 354 791-331	42	70	400	SAE	238	129	225	STD	(+ -)	-
46B24RS-BHD	8EB 354 791-341	42	70	400	SAE	238	129	225	STD	(+ -)	B1
46B24LS	8EB 354 791-351	42	70	400	SAE	238	129	225	STD	(- +)	-
46B24LS-BHD	8EB 354 791-361	42	70	400	SAE	238	129	225	STD	(- +)	B1
55B24R	8EB 354 791-371	45	75	430	SAE	238	129	225	SMALL	(+ -)	-
55B24R-BHD	8EB 354 791-381	45	75	430	SAE	238	129	225	SMALL	(+ -)	B1
55B24L	8EB 354 791-391	45	75	430	SAE	238	129	225	SMALL	(- +)	-
55B24L-BHD	8EB 354 791-401	45	75	430	SAE	238	129	225	SMALL	(- +)	B1
55B24RS	8EB 354 791-411	45	75	430	SAE	238	129	225	STD	(+ -)	-
55B24RS-BHD	8EB 354 791-421	45	75	430	SAE	238	129	225	STD	(+ -)	B1
55B24LS	8EB 354 791-431	45	75	430	SAE	238	129	225	STD	(- +)	-
55B24LS-BHD	8EB 354 791-441	45	75	430	SAE	238	129	225	STD	(- +)	B1
55D23R	8EB 354 791-451	60	100	500	SAE	232	173	225	STD	(+ -)	-
55D23R-BHD	8EB 354 791-461	60	100	500	SAE	232	173	225	STD	(+ -)	B1
55D23L	8EB 354 791-471	60	100	500	SAE	232	173	225	STD	(- +)	-
55D23L-BHD	8EB 354 791-481	60	100	500	SAE	232	173	225	STD	(- +)	B1
80D23R	8EB 354 791-491	70	115	580	SAE	232	173	225	STD	(+ -)	-
80D23R-BHD	8EB 354 791-501	70	115	580	SAE	232	173	225	STD	(+ -)	B1
80D23L	8EB 354 791-511	70	115	580	SAE	232	173	225	STD	(- +)	-
80D23L-BHD	8EB 354 791-521	70	115	580	SAE	232	173	225	STD	(- +)	B1
48D26R	8EB 354 791-531	50	78	400	SAE	260	173	225	STD	(+ -)	-
48D26L	8EB 354 791-541	50	78	400	SAE	260	173	225	STD	(- +)	-
55D26R	8EB 354 791-551	60	100	500	SAE	260	173	225	STD	(+ -)	-
55D26R-BHD	8EB 354 791-561	60	100	500	SAE	260	173	225	STD	(+ -)	B1
55D26L	8EB 354 791-571	60	100	500	SAE	260	173	225	STD	(- +)	-
55D26L-BHD	8EB 354 791-581	60	100	500	SAE	260	173	225	STD	(- +)	B1
80D26R	8EB 354 791-591	70	115	600	SAE	260	173	225	STD	(+ -)	-
80D26R-BHD	8EB 354 791-601	70	115	600	SAE	260	173	225	STD	(+ -)	B1
80D26L	8EB 354 791-611	70	115	600	SAE	260	173	225	STD	(- +)	-
80D26L-BHD	8EB 354 791-621	70	115	600	SAE	260	173	225	STD	(- +)	B1
65D31R	8EB 354 791-631	65	105	550	SAE	303	173	225	STD	(+ -)	-
65D31L	8EB 354 791-641	65	105	550	SAE	303	173	225	STD	(- +)	-



XCELERATE

Description	Part Number	20Ah Rate (Ah)	RC (Min)	CCA (A)	CCA Norm	Length (mm)	Width (mm)	Total Height (mm)	Terminal	Cell Layout	Hold Down
75D31R	8EB 354 791-651	75	120	630	SAE	303	173	225	STD	(+ -)	-
75D31R-BHD	8EB 354 791-661	75	120	630	SAE	303	173	225	STD	(+ -)	B1
75D31L	8EB 354 791-671	75	120	630	SAE	303	173	225	STD	(- +)	-
75D31L-BHD	8EB 354 791-681	75	120	630	SAE	303	173	225	STD	(- +)	B1
95D31R	8EB 354 791-691	85	145	730	SAE	303	173	225	STD	(+ -)	-
95D31R-BHD	8EB 354 791-701	85	145	730	SAE	303	173	225	STD	(+ -)	B1
95D31L	8EB 354 791-711	85	145	730	SAE	303	173	225	STD	(- +)	-
95D31L-BHD	8EB 354 791-721	85	145	730	SAE	303	173	225	STD	(- +)	B1
95E41	8EB 354 791-731	100	180	720	SAE	410	175	235	STD	(+ -)	-
130E41	8EB 354 792-151	115	210	850	SAE	410	175	235	STD	(+ -)	-
115F51	8EB 354 791-741	120	220	820	SAE	505	183	240	STD	(±)	-
145G51	8EB 354 791-751	150	300	950	SAE	508	222	241	STD	(±)	-
190H52	8EB 354 791-761	200	410	1200	SAE	523	279	248	STD	(±)	-

XCELERATE PRO

Description	Part Number	20Ah Rate (Ah)	RC (Min)	CCA (A)	CCA Norm	Length (mm)	Width (mm)	Total Height (mm)	Terminal	Cell Layout	Hold Down
46B19R	8EB 354 791-771	38	60	360	JIS	187	127	226	STD/SMM	(+ -)	-
46B19L	8EB 354 791-891	38	60	360	JIS	187	127	226	STD/SMM	(- +)	-
70B24R	8EB 354 791-781	48	80	470	JIS	238	129	225	STD/SMM	(+ -)	-
70B24L	8EB 354 791-901	48	80	470	JIS	238	129	225	STD/SMM	(- +)	-
80D23R	8EB 354 791-791	70	115	600	JIS	232	173	225	STD	(+ -)	-
80D23L	8EB 354 791-911	70	115	600	JIS	232	173	225	STD	(- +)	-
85D26R	8EB 354 791-801	75	135	640	JIS	260	173	222	STD	(+ -)	-
85D26L	8EB 354 791-921	75	135	640	JIS	260	173	222	STD	(- +)	-
90D26R	8EB 354 791-811	80	140	680	JIS	260	173	222	STD	(+ -)	-
90D26L	8EB 354 791-931	80	140	680	JIS	260	173	222	STD	(- +)	-
105D31R	8EB 354 791-821	90	160	780	JIS	303	173	225	STD	(+ -)	-
105D31L	8EB 354 791-941	90	160	780	JIS	303	173	225	STD	(- +)	-

XCELERATE ULTRA

Description	Part Number	20Ah Rate (Ah)	RC (Min)	CCA (A)	CCA Norm	Length (mm)	Width (mm)	Total Height (mm)	Terminal	Cell Layout	Hold Down
N55R (Group B24)	8EB 354 791-831	55	80	460	JIS	238	129	225	STD/SMM	(+ -)	-
N55R-BHD (Group B24)	8EB 354 791-991	55	80	460	JIS	238	129	225	STD/SMM	(+ -)	B1
N55 (Group B24)	8EB 354 791-951	55	80	460	JIS	238	129	225	STD/SMM	(- +)	-
N55-BHD (Group B24)	8EB 354 792-001	55	80	460	JIS	238	129	225	STD/SMM	(- +)	B1
Q85R (Group D23)	8EB 354 791-841	65	110	550	JIS	232	173	225	STD	(+ -)	-
Q85R-BHD (Group D23)	8EB 354 792-011	65	110	550	JIS	232	173	225	STD	(+ -)	B1
Q85 (Group D23)	8EB 354 791-961	65	110	550	JIS	232	173	225	STD	(- +)	-
Q85-BHD (Group D23)	8EB 354 792-021	65	110	550	JIS	232	173	225	STD	(- +)	B1
S95R (Group D26)	8EB 354 791-851	80	130	680	JIS	260	173	222	STD	(+ -)	-
S95R-BHD (Group D26)	8EB 354 792-031	80	130	680	JIS	260	173	222	STD	(+ -)	B1
S95 (Group D26)	8EB 354 791-971	80	130	680	JIS	260	173	222	STD	(- +)	-
S95-BHD (Group D26)	8EB 354 792-041	80	130	680	JIS	260	173	222	STD	(- +)	B1
T110R (Group D31)	8EB 354 791-861	95	150	760	JIS	303	173	225	STD	(+ -)	-
T110R-BHD (Group D31)	8EB 354 792-051	95	150	760	JIS	303	173	225	STD	(+ -)	B1
T110 (Group D31)	8EB 354 791-981	95	150	760	JIS	303	173	225	STD	(- +)	-
T110-BHD (Group D31)	8EB 354 792-061	95	150	760	JIS	303	173	225	STD	(- +)	B1
L2	8EB 354 791-871	60	100	560	EN	245	175	190	STD	(- +)	B3
L3	8EB 354 791-881	70	120	650	EN	278	175	190	STD	(- +)	B3

XCELERATE ULTRA⁺

Description	Part Number	20Ah Rate (Ah)	RC (Min)	CCA (A)	CCA Norm	Length (mm)	Width (mm)	Total Height (mm)	Terminal	Cell Layout	Hold Down
AGM L2	8EB 354 792-261	60	100	640	EN	242	175	190	STD	(- +)	B3
AGM L3	8EB 354 792-271	70	120	760	EN	278	175	190	STD	(- +)	B3
AGM L4	8EB 354 792-281	80	140	800	EN	315	175	190	STD	(- +)	B3
AGM L5	8EB 354 792-291	92	160	850	EN	353	175	190	STD	(- +)	B3
AGM L6	8EB 354 792-301	105	190	950	EN	393	175	190	STD	(- +)	B3



Terminal, Hold Down & Cell Layout

Terminal

Hold Down

Cell Layout

Basic Battery Management Process

First in, First out

Storage Condition

- Low temperature and humidity
- Good ventilation
- Ideal storage temperature kept under 27°C

Racking system

2

Without racking system recommend staking batteries with one layer to prevent damages of battery and box

45°

Do not place battery on the skew or in laid position during storage

Keep proper record using computerized system

Warehouse of goods :
Production date to be based on the Lot number

Releasing of goods :
Check the battery condition before releasing if it is charged over 80%

Batteries should be placed according to its size, Lot number for proper management



HELLA Battery

Your leading choice for quality battery



Higher lifecycle performance
Designed with long lasting capabilities, the Xcelerate range of batteries is particularly suited for the tropical region.



Reliable marketing & sales support
As our partner, HELLA provides a wide range of marketing resources to support you in building a successful business.



Comprehensive range coverage
From Starting Lighting Ignition to start-stop technologies, HELLA has a battery for every automotive needs.



Trustworthy brand synonymous with quality and excellent performance
HELLA is one of the leading automotive parts manufacturer, with more than 100 years of expertise.