

EXIDE

**MOTIVE
POWER
BATTERIES**



#WhatDrivesYou



#WhatDrivesYou

EXIDE is lot more than just the leading battery manufacturer in India. It is a world of innovation that builds relationships across every domain in India & beyond. We have set new world standards in battery technology through our focus on excellence, commitment & reliability. Over the decades, EXIDE have become the driving force in principal economic sectors globally by creating cutting edge tailor made customized solutions and producing never seen before technological capabilities. Today EXIDE is a leading manufacturer of the entire gamut of secondary battery applications from motorcycle to large commercial vehicles, small UPS batteries to large submarine batteries & is constantly evolving as a manufacturer to drive performance through excellence. The brand EXIDE has grown steadily, modernized it's manufacturing processes & taken benchmark initiatives on the service front to become one of the largest manufacturers and exporters of batteries in South & South-East Asia. Continuous innovations have helped the company produce the world's largest range of industrial batteries extending range from 2.5 Ah to 15000 Ah covering various technology platforms. With an unmatched customer preference resulting in an ever growing Market Share, EXIDE is a force that's not only driving your motorcycles or cars or the MHE's, it is the force that is moving the Nation for the last 7 decades.



- OEM supplier to Jungheinrich, Germany.
- 85% of our Traction battery production is exported.
- UK, Germany, South Africa, Japan, Korea, Singapore.





ADVANCE SYSTEM SEAMLESS EFFICIENCY



IMPREGNATED GROMMET

(NEW TECHNOLOGY)

The grommet has a special groove design and a strong interference with the terminal resulting in zero leakage/corrosion and minime external shorts.



NEGATIVE GRID

The batteries use a patented low antimony grid to maintain low electrical resistance and ensure support for the negative active material. To obtain consistency of the highest levels, WIRTZ (USA) technology is applied.



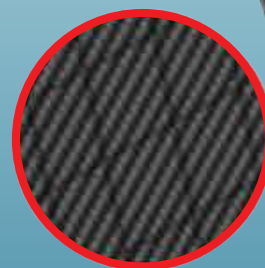
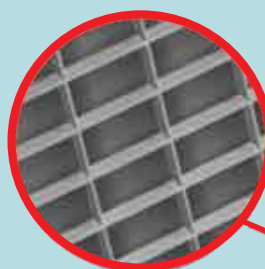
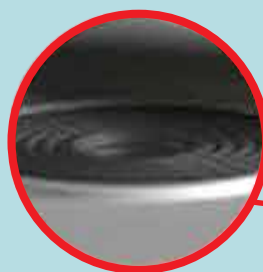
SEPARATOR

The low ionic resistance of microporous polythene separators ensures high battery power throughout the battery's life. Procured from sources, the separators have excellent oxidation and puncture resistance.



NEGATIVE ACTIVE MATERIAL

The composition of the negative active material has been specially derived to be perfectly complementary to the positive plate. This greatly enhances the longevity of the battery. in addition the pasting process uses state-of-the-art MAC (USA) machines for uniform density and texture throughout the surface area and ensures better active material retention.





INNOVATION BY DESIGN

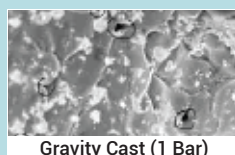


POSITIVE SPINE

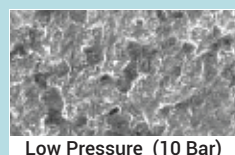
The positive spine is the backbone of the plate and is cast at incredibly high 120 bar pressure with a special low antimony lead alloy formula.



SPINE CASTING



Gravity Cast (1 Bar)



Low Pressure (10 Bar)



Cast in Hadi (120 Bar)

An excellent combination of a very reliable frame of work and low electrical plate resistance is achieved using high technology Hadi (Austria) equipment.

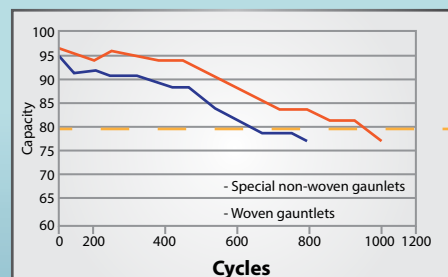


GAUNTLETS & ACTIVE MATERIAL

To enhance battery life, a combination of non-woven gauntlets and specially formulated active material is used. The unique structure of the non-woven gauntlets enables the electrolyte to penetrate more freely while further reducing the shedding of the active material



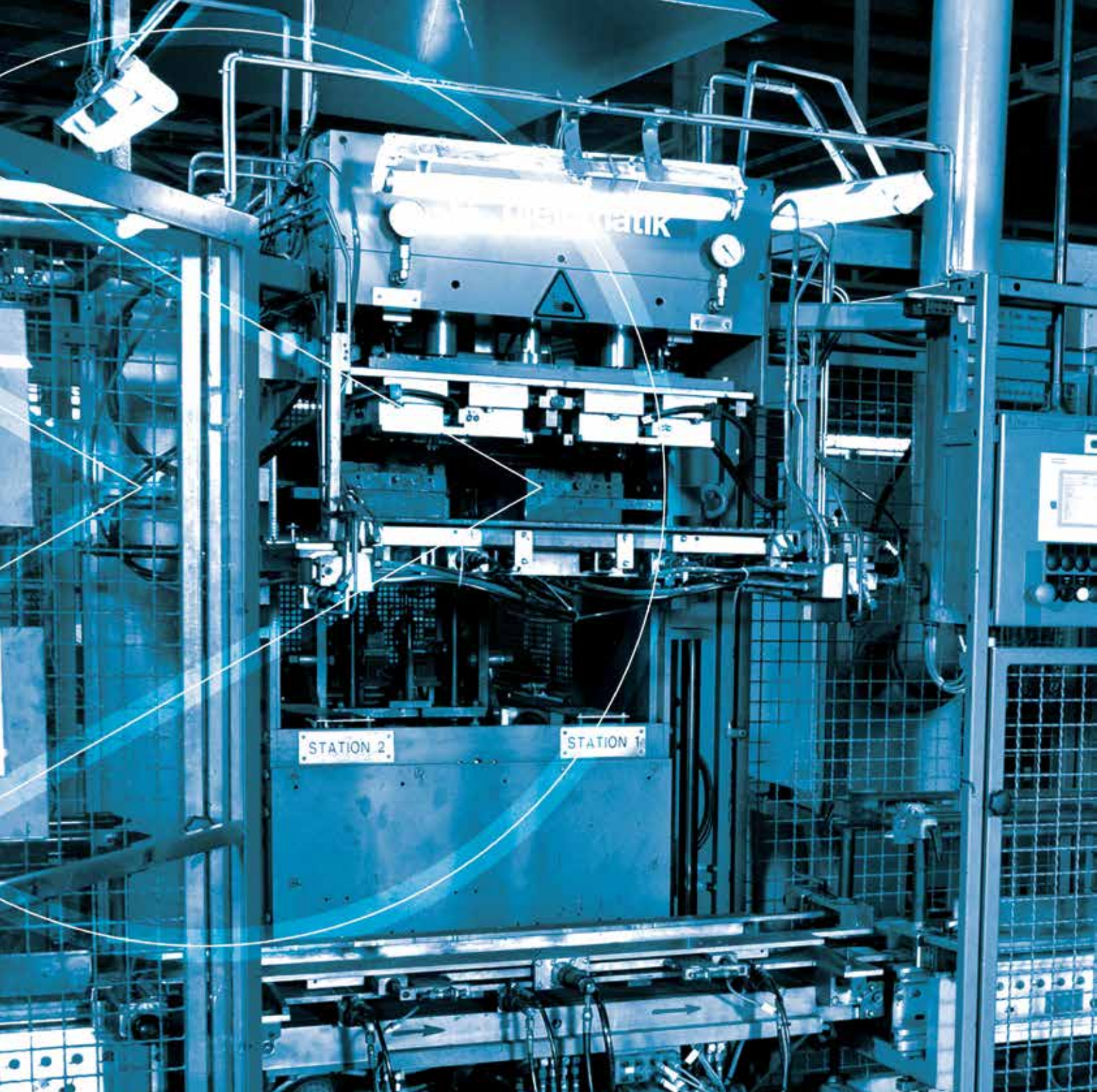
SUPERIOR LIFE CYCLE OF NON WOVEN GAUNTLETS



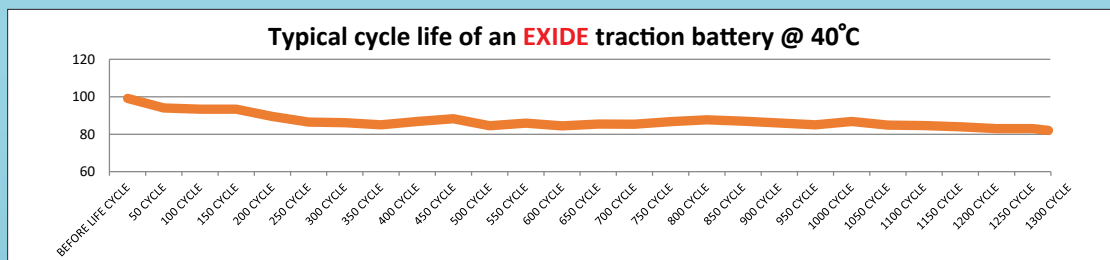
BOLTED TERMINAL TECHNOLOGY

Superior 'Bolt-on Terminals' technology with brass inserts provides better electrical performance. Not only does this replacement of any battery accessories easier & quicker, it prevents wear & tear of the terminals. Bolt-On Pillars are used with advanced grommets which are designed to arrest acid seepage and prevent terminal corrosion. The grommets are also designed to nullify the effect of plate growth.



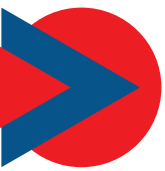


UNMATCHED CYCLE LIFE over various ambient temperatures



➤ 1800+ cycles @ 25°C (@ C-5 Rate) ➤ 1500+ cycles @ 30°C (@ C-5 Rate) ➤ 1300+ cycles @ 35°C (@ C-5 Rate)

NOTE: IEC-60254-1 Advocates the reference temperature to be 30°C. Practical Cell temperatures in Indian conditions ranges between 35°C- 45°C.



MANUFACTURING EXCELLENCE

Exide has a sophisticated, self-sufficient facility dedicated for Motive Power Applications with a capacity of one million cells per year. While all the manufacturing processes of Exide are world class, two processes clearly stand out:



FILTRATION FILLING TECHNOLOGY

The New Filling Technology along with non-woven gauntlets ensures appropriate filling density in the positives, ensures longer life and performance even at partial state of charge.



RE-CIRCULATION FORMATION

We have migrated to high-tech continuous re-circulation formation technique from the conventional formation system.



ADVANTAGES OF RE-CIRCULATION FORMATION

- Users receive charged, tested cells
- The fewer steps and lesser variables involved ensure consistent performance
- It's an environmentally clean process with no acidic effluent discharged from the system
- Low power consumption makes it a production-friendly process
- Availability of optimum specific gravity of acid for formation of both positive and negative plates
- Precise control of formation temperature- consistency guaranteed
- Continuous circulation of acid, no stratification, uniform formation throughout the length of the plate, better utilization of active material
- Cells are tested for capacity and shortfalls captured at the production level itself Supplied cells are assured for performance







THE SPECTRUM OF POWER

Exide thrives on being the unrivalled choice as a battery systems brand. Each Motive-Power battery system is designed to deliver a complete system to offer reliability and efficiency.



➤ EXIDE HSP RANGE:

The very popular & ever dependant HSP range has been powering various makes of forklifts for more than two decades. The HSP range is available in BS and DIN range from 58 Ah to 841 Ah in BS, and 120 Ah to 1400 Ah in DIN. being available in both British and Continental standards, the HSP range can be fitted in all makes of forklifts.

➤ EXIDE TRACTION GEL:

T-GEL is a valve regulated gas recombination batteries series (maintenance free) with tubular positive plate and gel immobilized electrolyte. This range enhances EXIDE's motive power batteries portfolio and provides one more solution to customers involved in materials, handling equipment industry.



➤ EXIDE GEN-X RANGE:

The Exide Gen-X range comes with 15% additional capacity in the same dimensions of the HSP range. The higher diameter of the gauntlet tubes increase the annular volume resulting in increased power. The advance formula of Red Lead and Grey Oxide used in the positive active material ensures increased power and long life. The Exide Gen-X range of batteries is at the highest technology level and has very high efficiency.

➤ EXIDE BOLTED TERMINALS:

The entire BS and Gen-X range is available with bolt-on terminals. Bolt-on terminals provide easy replacement of cells thereby saving valuable time.





SINGLE POINT WATERING SYSTEM AND ELECTRONIC LEVEL SENSOR

The automated water refill makes it possible to top up all the cells from one central point through an integrated system. The vent plugs automatically ensure the optimum filling level. The single point watering system along with a electronic electrolyte level sensor ensure proper maintenance of the battery. The kit can be fitted at the factory and on site.



BATTERY MONITORING SYSTEM



Measure:

- Battery Voltage
- Temperature
- Electrolyte level
- Charging & Discharging Current



Report/Displays:

- % battery charge capacity real time
- % life of battery
- Faculty cell alarm
- Battery low alarm



Stores:

- Battery voltages
- Charging & Discharging Current
- Charge & Discharge Duration



SMART CLAMP

A common cause of battery failure-the loosening of the cable from the socket. One of the many value added features of the Exide batteries, the SMART CLAMP helps to firmly tie down the cable to the socket.



POWER AT YOUR SERVICE

Exide has taken an initiative to provide door-step service to the customers using Exide traction batteries. The Trac Mobile Vans are operative in all major cities in India including

- New Delhi
- Mumbai
- Chennai
- Pune
- Baroda
- Hyderabad
- Bangalore
- Kolkata
- Goa
- Chandigarh
- Hosur

Trac Mobile service is available for the following brands:

HSP Classic-24 month warranty.

Gen X-Additional capacity in same dimension.

T-Gel - Unmatched warranty in maintenance free.

Warranty For Trac Mobile Cities

5 years full warranty against AMC or

2 years full warranty and 3 years

pro-rata warranty without AMC





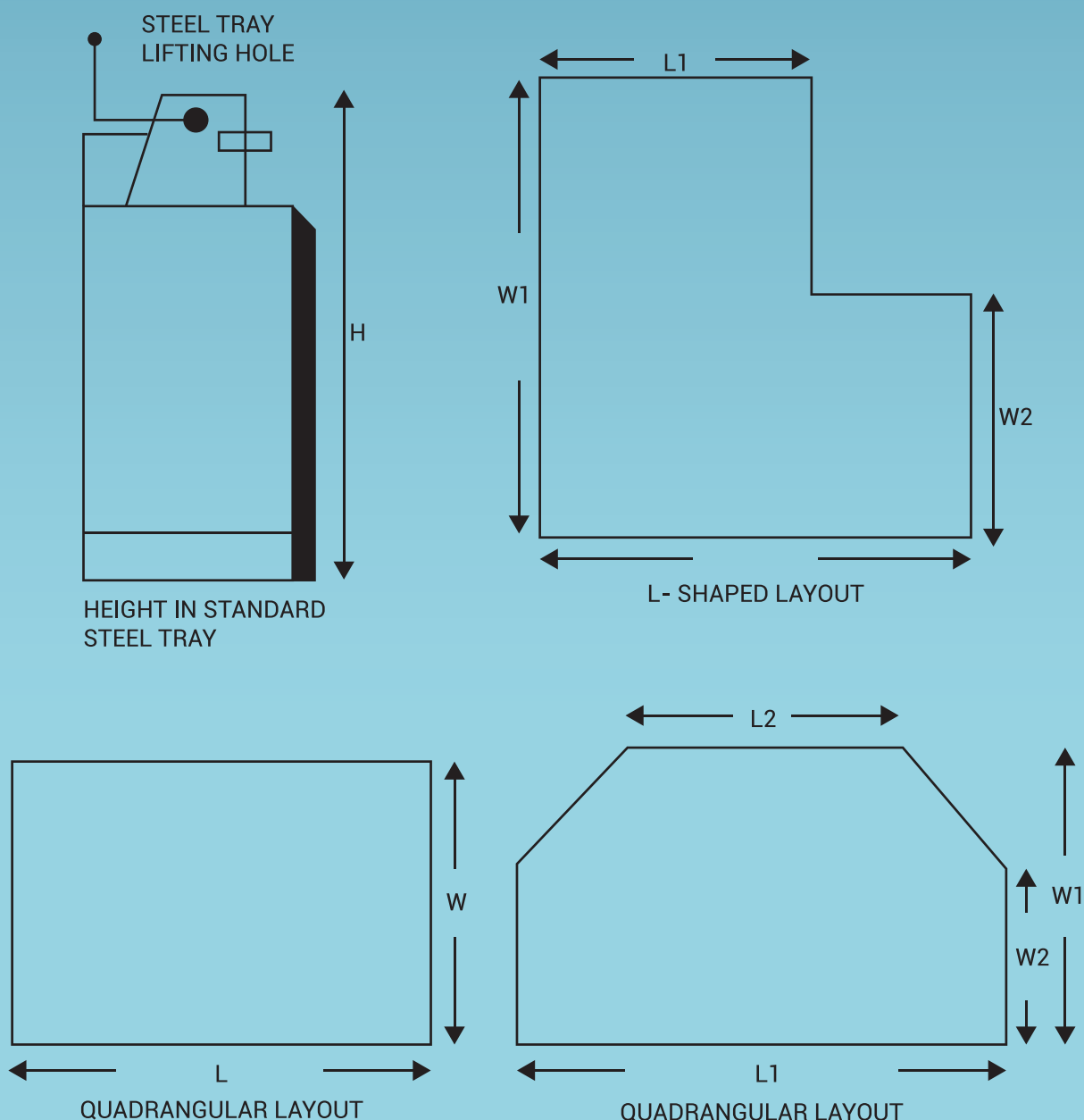
SELECTING YOUR BATTERY

If Truck make & Model is known please refer to "Replacement Chart"

Otherwise please provide

- Capacity of battery at 5 hour rate of discharge and battery voltage
- Number of cells per battery
- Clear inside dimensions of battery compartment
- Overall maximum dimensions of existing/ required battery. Please provide a hands sketch of the battery
- Terminal positions and cell layout
- Detail on position of studs (if any)

Following is the schematic diagram of Traction batteries :





REPLACEMENT CHART



Sr.No	BATT TYPE	Rating	Vol	No of Cells	AH	DRG NO	TRAY DIM (LxWxH) MM	VEHICLE MAKE
MACNEILL								
1	24 ILF 17	48V/385AH	48	24	385	BC1824T	908 X 676 X 425	CQD20RVF
2	24 ILF 11	48V/241AH	48	24	241	BB4309F	920 X 528 X 475	HI-LIFT 1008
3	24 TLF 17	48V/443AH	48	24	443	BC1824T	908 X 676 X 476	TL 2420
4	36 IMF 17	72V/320AH	72	36	320	BB4450F	997 X 915 X 475	TL 2520
5	36 ILF 17	72V/385AH	72	36	385	BC1075IJ	997 X 915 X 475	R 1020 EHD
6	8 THF 11/21	24V/645AH	24	16	645	BB2291H	500 X 467 X 810	R 14
7	24 XVF 13	48V/174AH	48	24	174	BA10216D	684 X 682 X 284	TM2040
8	36 TLF 17	72V/443AH	72	36	443	BC1075IE	997 X 915 X 475	TM2240
9	12 THF 7	24V/194AH	24	12	194	BC6221B	772 X 180 X 592	R1040 / R1030(SPL)
10	12 TLF 7	24V/166AH	24	12	166	BC10238D	664 X 221 X 533	HDC1.0/HDS1.25/PPT
11	12 THF 9	24V/258AH	24	12	258	BC6220D	660 X 260 X 592	CR2120
12	12 ILF 13	24V/290AH	24	12	290	BC6222C	696 X 340 X 480	HDC1.25/HD1.5/HDS1.5
13	24 THF 17	48V/516AH	48	24	516	BC14389	978 X 767 X 590	(TYPE113-02)
14	18THF13/18IMF21	72V/387-400AH	72	36	387/400	BC8142D	916 X 996 X 575	R1025/R1030/TM3100/HR1015
15	2X6IMF13	12V/240AH	12	12	240	BC4424F	363 X 338 X 400	R1020
16	18IMF17	36V/320AH	36	18	320	BC3518L	997 X 467 X 394	TL2130LX
JOST								
1	15ILF9	30V/193AH	30	15	193	BB10255	814 X 354 X 504	2T/3 - WHEELER PT
2	15ILF13	30V/290AH	30	15	290	BC15402	814 X 354 X 504	2T/3 - WHEELER PT
3	12THF7	24V/194AH	24	12	194	BC8046	664 X 221 X 600	Pallet Truck
4	18IMF17	36V/320AH	36	18	320	BC3158	997 X 467 X 391	2T/4 - WHEELER PT
JALDOOT								
1	15TLF9	30V/220AH	30	15	220	BB9000	814 X 354 X 504	JUMBO ELECT.
2	15ILF9	30V/193AH	30	15	193	BB10255	814 X 354 X 504/532	3 - WHEELER PT
3	15ILF13	30V/290AH	30	15	290	BC15402	814 X 354 X 504	4 - WHEELER PT
4	12THF7	24V/194AH	24	12	194	BC8046	664 X 221 X 600	Pallet Truck
5	12TLF7	24V/166AH	24	12	166	BC10238	723 X 221 X 535	Pallet Truck
GODREJ								
1	36TLF13	72V/332AH	72	36	332	BC7494	1000 X 700 X 540	GX250E / GX300E
2	18TLF17	36V/443AH	36	18	443	BC4957	830 X 630 X 533	G100E
3	24TLF17R	48V/470AH	48	24	470	BC6259	1000 X 700 X 540	GX200E
4	36THF11	72V/323AH	72	36	323	BC14406	980 X 590 X 590	GX300E PA / GX300E-NEO
5	24XWBF7	48V/240AH	48	12	240	BC12298	795 X 415 X 480	GTT50 / GTT60
6	12THF17	24V/516	24	12	516	BC12791	877 X 346 X 571	GECBS SARIGAM
7	24TLF21	48V/553	48	24	553	BC6573	1000 X 730 X 530	GX300E
8	12XWEF7	24V/330	24	12	330	BC5972	820 X 215 X 625	GTT20
9	24THF17R	48V/470	48	24	470	BC6259	1000 X 700 X 540	GX200E-PA
10	12XWEF5	24V/220AH	24	12	220	BC7253	630 X 210 X 622	GPPT
11	24XWEF9	48V/440AH	48	24	440	BC5963	820 X 518 X 625	CROWN SC 1.6
12	24XWFF7	48V/420AH	48	24	420	BC5947	1220 X 280 X 784	CROWN ESR 1.4
13	24TLF21	48V/553	48	24	553	BC6573	1000 X 730 X 530	G200E2.0T
PUMA								
1	12TLF7R	24V/195AH	24	12	166	BC6596G	781X176X517	ES 1.2 TON ,
MAINI								
1	12THF7R	24V/244AH	24	12	244	BC8536	747 X 175 X 625	ST10/ST12/SP22/SP36/SC10
2	24XWBF7	48V/240AH	48	24	240	BC7996	794 X 415 X 480	TT 20/ TT 50
3	12XWBF5	24V/160AH	24	12	160	BC7827	630 X 210 X 500	SP 20
4	12XWCF11	24V/450AH	24	12	450	BC10086	650 X 514 X 520	SC 18
5	12XWEF7	24V/220AH	24	12	220	BC7825	797 x 212 x 615	ST 15/ SP 36/ SC 14
VOLTAS/KION								
1	24THF17	48V/516AH	48	24	516	BC7838	900 X 674 X 590.5	EVX30
2	36THF13	72V/387AH	72	36	387	BC17366	978 X 695 X 600	EVX30
3	24THF25R	48V/810AH	48	24	810	BC11233	990 X 865 X 600	3 Ton RT
4	24TLF17	48V/443AH	48	24	443	BC7838	900 x 674 x 533.5	EVX20



REPLACEMENT CHART



Sr.No	BATT TYPE	Rating	Vol	No of Cells	AH	DRG NO	TRAY DIM (LxWxH) MM	VEHICLE MAKE
MACNEILL								
1	12EXWCF5	24V/180AH	24	12	180	BC13010	624 X 212 X 627	FBR15X
2	12EHXWCF5	24V/210AH	24	12	210	BC22539	815 X 208 X 630	CPD25J-C1/ CPD20J
3	24EXTLF11	48V/325AH	48	24	325	BC16062	976 X 400 X 541	HS 1010
4	15EXILF13	30V/330AH	30	15	330	BB16774	1000 X 360 X 480	HL1005
5	24EXILF21	48V/550AH	48	24	550	BC16820	1075 X 660 X 510	CR2120
6	24ELXTEF11	48V/500AH	48	24	500	BC22691	960 X 490 X 660	E30/387-01/KC
7	24ELXTEF13	48V/600AH	48	24	600	BC11731C	1028 X 570 X 780	R1030
8	24EXTTEF13	48V/648AH	48	24	648	BC22693	1020 X 520 X 720	E25S/336-03
9	24EXTOF13	24V/258AH	24	12	258	BC17408	980 X 465 X 780	COMMUTER
10	40EXTTEF9	80V/432AH	80	40	432	BC22690	1072 X 650 X 793	1.5T-IC
JOST								
1	12EXTHF7	24V/225AH	24	12	225	BC16047	664 X 221 X 600	Pallet Truck
2	24EXWBF11	48V/400AH	48	24	400	BC13826	980 X 660 X 510	4 Wheeler PT
3	36EXWBF11	72V/400AH	72	36	400	BC14360	980 X 880 X 510	3 Ton JT Forklift
4	18EXWAF11	36V/300AH	36	18	300	BC13901	915 X 423 X 460	2T/3T Platform Truck
JALDOOT								
1	18EXIMF17	36V/336AH	36	18	336	BC8587	997 X 467 X 391	4 Wheeler PT
2	12EXTLF7	24V/195AH	24	12	195	BC8996	664 X 221 X 600	Pallet Truck
3	15EXILF13	30V/330AH	30	15	330	BC15402	814 X 354 X 504	3 Wheeler PT
GODREJ								
1	24EXWBF7	48V/240AH	48	24	240	BC12298	795 X 415 X 480	GODREJ 5TON/6TON TOW TRUCK
2	12EXWEF7	24V/375AH	24	12	375	BC8988	620 X 280 X 622	GESR/CROWN WE2000
3	24EXWFF9	48V/620AH	48	24	620	BC16824	1020 X 440 X 770	CROWN SC 1.6
4	12EXWFF11	24V/775AH	24	12	775	BC19324	920 X 360 X 785	CROWN STACKER
5	18EXWFF11	36V/775AH	36	18	775	BC12373	975 X 412 X 785	CROWN
6	24EXTHF17	48V/600AH	48	24	600	BC20301	980 X 590 X 590	2T EP 3 WHEELER
7	24ELXWFF11	48V/700AH	48	24	700	BC23302	1218 X 422 X 780	GX 300E PA
8	36ELXTEF11	72V/500AH	72	36	500	BC12194	980 X 590 X 660	GX 300E
9	40EXTOF9	80V/344AH	80	40	344	BC15446	980 X 570 X 650	GX300E-BRAVO
10	40ELXTEF9	80V/400AH	80	40	400	BC15447	980 X 570 X 650	GX300E-BRAVO
11	18ELXTEF19	36V/900AH	36	18	900	BC8609	990 X 665 X 575	CROWN RR5220 2MT TYPE E
12	36EXTHF15	72V/525AH	72	36	525	BC11496	1000 X 780 X 574	GX300E
13	24EXTLF15	48V/455AH	48	24	455	BC18722	1000 X 700 X 540	GX200E
14	24EXTLF21	48V/650AH	48	24	650	BC8590	1000 X 730 X 530	GX200E
15	24EXILF21	48V/550AH	48	24	550	BC14377	1000 X 720 X 530	GX300E
16	24EXTTEF11	48V/540AH	48	24	540	BC13014	1025 X 410 X 770	GRT120E
17	24EXWFF7	48V/465AH	48	24	465	BC11878	1220 X 280 X 784	GRT100E
18	24EXTOF13	48V/516AH	48	24	516	BC13832	980 X 456 X 610	GX200E-BRAVO
PUMA								
1	12ELXWEF7	24V/345AH	24	12	345	BC18673	797 X 212 X 615	ES 2 Ton/EP 5 TON
2	12EXTLF7	24V/195AH	24	12	195	BC17328A	655 X 210 X 545	EP 2.5/3TON
3	12TLF7R	24V/195AH	24	12	166	BC6596G	781 X 176 X 517	ES 1.2 TON
BAKA								
1	12EXWCF7	24V/270AH	24	12	270	BC8676E	792 X 220 X 560	EGV
2	12TLF7R	24V/195AH	24	12	166	BC6596G	781 X 176 X 517	EGU-2.5/3 TON
3	12ELXWEF7	24V/345AH	24	12	345	BC18673	797 X 212 X 615	EGU 5TON



REPLACEMENT CHART



Sr.No	BATT TYPE	Rating	Vol	No of Cells	AH	DRG NO	TRAY DIM (LxWxH) MM	VEHICLE MAKE
MAINI								
1	2X6XVF15R	24V/217AH	24	12	217	BC6352	510 X 275 X 330	EPT 5
2	12XILF7	24V/162AH	24	12	162	BC18522	750 X 170 X 530	SP 22i
3	12XTHF7R	24V/244AH	24	12	244	BC18521	747 X 175 X 625	SP 25i, ST 10i/12i
4	12ELXWEF7	24V/345AH	24	12	345	BC18673	797 X 212 X 615	ST 15i, SP 36
5	12EXWCF11	24V/450AH	24	12	450	BC13023A	650 X 415 X 520	SC SERIES
6	24EXWBF7	48V/240AH	48	24	240	BC8583	794 X 415 X 480	TT 50
7	24ELXTEF11	48V/500AH	48	24	500	BC15417	825 X 486 X 680	RCF
8	40EXWFF7	80V/465AH	80	40	465	BC41228	1026 X 852 X 627	TT150
VOLTAS / KION								
1	24EXTLF17	48V/520AH	48	24	520	BC7838	900 X 674 X 533	EVX 15/ EVX 20/ EVX 25/ 2 TON
2	24EXTHF17	48V/600AH	48	24	600	BC8677	900 X 674 X 590.5	EVX 25/ EVX 30/ 2.5 TON
3	24EXTHF25	48V/900AH	48	24	900	BC10219	990 X 865 X 600	EVX 30/ 3 TON
4	24EXWFF9	48V/620AH	48	24	650	BC19672	1219 X 355 X 784	BT TRUCK
5	18EXTLF21	36V/650AH	36	18	780	BC8634	990 X 641 X 533	1.5 TON
6	18EXTLF25	36V/780AH	36	18	900	BC10211	990 X 643 X 533	2 TON (OLD TYPE)
7	18EXTHF25	36V/900AH	36	18	810	BC8609	990 X 685 X 575	2.5 TON
LINDE								
1	24EXWEF9	48V/500AH	48	24	500	BC23380	1220X355X778	T20 1152/TB LINDE
2	40ELXTEF11	80V/500AH	80	40	500	BC15482	1028 X 710 X 780	L-16 LINDE
JUGHEINRICH								
1	24EXWEF11	48V/625AH	48	24	625	BC14411	825 X 625 X 625	EFG320N
2	24EXWEF13	48V/750AH	48	24	750	BC17355	830 X 735 X 625	EFG216
3	12EXWEF7	24V/375AH	48	24	375	BC22682	830 X 414 X 627	EJC216/ STACKER
4	24EXWFF11	48V/775AH	48	24	775	BC22695	1223 X 427 X 784	ETV318/ 1.8 TON REACH TRUCK
5	40EXWFF11	80V/775AH	80	40	775	BC17356	1026 X 852 X 784	EFG430
6	24EXWFF13	48V/930AH	48	24	930	BC22513	1215 X 495 X 784	EPV325/ JH REACH TRUCK
7	40EXWFF13	80V/930AH	80	40	930	BC20144	1028 X 999 X 784	EFG540
ROOTS								
1	12EXWBF9	24V/320AH	24	12	320	BC13844	525 X 420 X 460	RB800 SCRUBBER DRIERS RIDE-ON
TOYOTA								
1	24EXILF21	48V/550AH	48	24	550	BC13472	900 X 815 X 479	7FB20
2	12EXTHF7	24V/225AH	24	12	225	BC11778	755 X 344 X 552	4CBT2
3	40EXTHF13	80V/450AH	80	40	450	BC13100	945 X 815 X 589	7FB30 / 7FBJ35
4	24EXTHF15	48V/525AH	48	24	525	BC13511	990 X 545 X 635	7FBE15 / 7FBE18
5	24EXTEF9	48V/432AH	48	24	432	BC12388	1223 X 355 X 793	6FBRE12 / 6FBRE14 / 6FBRE16 / 6FBRE20
6	24EXWBF13	48V/480AH	48	24	480	BC11775	900 X 810 X 479	7FB20
7	24EXILF17	48V/440AH	48	24	440	BC13549	815 X 738 X 479	7FB10 / 7FB14 / 7FB15 / 7FB18
8	24EXTHF9	48V/300AH	48	24	300	BC11771	955 X 370 X 565	7BFR15 / 7BFR18
HYUNDAI								
1	40ELXWFF11	80V/700AH	80	40	700	BC41851	1020 X 960 X 785	25BRJ/ REACH TRUCK
2	24ELXWEF11	48V/575AH	48	24	575	BC21612	980 X 620 X 645	16BRJ/ REACH TRUCK



MOTIVE POWER BATTERIES

EXIDE HSP CLASSIC MOTIVE POWER RANGE

BS RANGE CELLS (158 MM WIDE)

Type of Cell	Ah@C5 at 30°C	Cell Dimension in				Cell Weights in Kg.			Charging Current in Amperes				
		Length +/- 2mm	Width +/- 2mm	Overall Height +/- 5mm	Height upto Lid Top +/- 5mm	Without Acid +/- 5%	With Acid +/- 5%	Quantity of Acid (Ltr.)	Taper charging Single Step Charger			Equalising rate (Amps.)	Constant Current charging rate (Amps.)
									at 2.1 vpc		at 2.5 vpc		
									Taper 2:1 (Amps)	Taper 1.7:1 (Amps)	(Amps.)		
XVF5	58	47	158	290	260	3.8	5.0	0.9	7.3	6.5	4.4	1.7	3.5
XVF7	87	61	158	290	260	5.3	6.8	1.2	10.9	9.8	6.5	2.6	5.2
XVF9	116	77	158	290	260	6.8	8.9	1.6	14.5	13.1	8.7	3.5	7.0
XVF11	145	93	158	290	260	8.2	10.7	1.9	18.1	16.3	10.9	4.4	8.7
XVF13	174	109	158	290	260	9.7	12.7	2.3	21.8	19.6	13.1	5.2	10.4
XVF15	203	125	158	290	260	11.2	14.6	2.6	25.4	22.8	15.2	6.1	12.2
XVF17	232	141	158	290	260	12.7	16.6	3.0	29.0	26.1	17.4	7.0	13.9
XVF19	261	157	158	290	260	14.7	19.0	3.3	32.6	29.4	19.6	7.8	15.7
XVF21	290	173	158	290	260	16.3	20.9	3.6	36.3	32.6	21.8	8.7	17.4
XVF23	319	189	158	290	260	17.8	23.0	4.0	39.9	35.9	23.9	9.6	19.1
XVF25	348	205	158	290	260	19.3	25.0	4.4	43.5	39.2	26.1	10.4	20.9
XVF27	377	221	158	290	260	20.7	26.8	4.7	47.1	42.4	28.3	11.3	22.6
IMF5	80	47	158	369	339	4.8	6.3	1.2	10.0	9.0	6.0	2.4	4.8
IMF7	120	61	158	369	339	6.7	8.9	1.7	15.0	13.5	9.0	3.6	7.2
IMF9	160	77	158	369	339	8.6	11.5	2.2	20.0	18.0	12.0	4.8	9.6
IMF11	200	93	158	369	339	10.6	14.0	2.6	25.0	22.5	15.0	6.0	12.0
IMF13	240	109	158	369	339	12.5	16.6	3.2	30.0	27.0	18.0	7.2	14.4
IMF15	280	125	158	369	339	14.4	19.1	3.6	35.0	31.5	21.0	8.4	16.8
IMF17	320	141	158	369	339	16.4	21.8	4.2	40.0	36.0	24.0	9.6	19.2
IMF19	360	157	158	369	339	18.9	24.8	4.6	45.0	40.5	27.0	10.8	21.6
IMF21	400	173	158	369	339	20.9	27.5	5.1	50.0	45.0	30.0	12.0	24.0
IMF23	440	189	158	369	339	22.9	30.1	5.6	55.0	49.5	33.0	13.2	26.4
IMF25	480	205	158	369	339	24.8	32.6	6.1	60.0	54.0	36.0	14.4	28.8
IMF27	520	221	158	369	339	26.7	35.2	6.6	65.0	58.5	39.0	15.6	31.2
ILF5	96	47	158	437	407	5.7	7.5	1.4	12.0	10.8	7.2	2.9	5.8
ILF7	144	61	158	437	407	8.0	10.6	2.0	18.0	16.2	10.8	4.3	8.6
ILF9	193	77	158	437	407	10.4	13.7	2.6	24.1	21.7	14.5	5.8	11.6
ILF11	241	93	158	437	407	12.7	16.7	3.1	30.1	27.1	18.1	7.2	14.5
ILF13	290	109	158	437	407	15.0	19.8	3.7	36.3	32.6	21.8	8.7	17.4
ILF15	336	125	158	437	407	17.4	22.8	4.3	42.0	37.8	25.2	10.1	20.2
ILF17	385	141	158	437	407	19.7	26.0	4.9	48.1	43.3	28.9	11.6	23.1
ILF19	432	157	158	437	407	22.6	29.6	5.4	54.0	48.6	32.4	13.0	25.9
ILF21	482	173	158	437	407	24.9	32.7	6.0	60.3	54.2	36.2	14.5	28.9
ILF23	528	189	158	437	407	27.4	35.9	6.6	66.0	59.4	39.6	15.8	31.7
ILF25	578	205	158	437	407	29.7	38.9	7.2	72.3	65.0	43.4	17.3	34.7
ILF27	624	221	158	437	407	32.0	42.0	7.7	78.0	70.2	46.8	18.7	37.4
TLF5	110	47	158	488	458	6.4	8.5	1.6	13.8	12.4	8.3	3.3	6.6
TLF7	166	61	158	488	458	9.0	11.9	2.3	20.8	18.7	12.5	5.0	10.0
TLF9	221	77	158	488	458	11.7	15.5	2.9	27.6	24.9	16.6	6.6	13.3
TLF11	277	93	158	488	458	14.3	18.9	3.5	34.6	31.2	20.8	8.3	16.6
TLF13	332	109	158	488	458	17.0	22.4	4.2	41.5	37.4	24.9	10.0	19.9
TLF15	385	125	158	488	458	19.6	25.9	4.8	48.1	43.3	28.9	11.6	23.1
TLF17	443	141	158	488	458	22.8	30.0	5.6	55.4	49.8	33.2	13.3	26.6
TLF19	495	157	158	488	458	25.5	33.4	6.2	61.9	55.7	37.1	14.9	29.7
TLF21	553	173	158	488	458	28.1	36.9	6.8	69.1	62.2	41.5	16.6	33.2
TLF23	605	189	158	488	458	30.9	40.5	7.5	75.6	68.1	45.4	18.2	36.3
TLF25	664	205	158	488	458	33.5	44.0	8.1	83.0	74.7	49.8	19.9	39.8
TLF27	715	221	158	488	458	36.2	47.5	8.8	89.4	80.4	53.6	21.5	42.9



MOTIVE POWER BATTERIES

EXIDE HSP CLASSIC MOTIVE POWER RANGE CONTD.

BS RANGE CELLS (158 MM WIDE)

Type of Cell	Ah@C5 at 30°C	Cell Dimension in				Cell Weights in Kg.			Charging Current in Ampres				
		Length +/- 2mm	Width +/- 2mm	Overall Height +/- 5mm	Height upto Lid Top +/- 5mm	Without Acid +/- 5%	With Acid +/- 5%	Quantity of Acid (Ltr.)	Taper charging Single Step Charger			Equalising rate (Amps.)	Constant Current charging rate (Amps.)
									at 2.1 vpc		at 2.5 vpc		
									Taper 2:1 (Amps)	Taper 1.7:1 (Amps)	(Amps.)		
THF5	129	47	158	544	514	7.2	9.6	1.8	16.1	14.5	9.7	3.9	7.7
THF7	194	61	158	544	514	10.2	13.5	2.6	24.3	21.8	14.6	5.8	11.6
THF9	258	77	158	544	514	13.2	17.5	3.3	32.3	29.0	19.4	7.7	15.5
THF11	323	93	158	544	514	16.2	21.3	4.0	40.4	36.3	24.2	9.7	19.4
THF13	387	109	158	544	514	19.2	25.3	4.8	48.4	43.5	29.0	11.6	23.2
THF15	453	125	158	544	514	22.1	29.2	5.5	56.6	51.0	34.0	13.6	27.2
THF17	516	141	158	544	514	25.7	33.8	6.3	64.5	58.1	38.7	15.5	31.0
THF19	582	157	158	544	514	28.7	37.7	7.0	72.8	65.5	43.7	17.5	34.9
THF21	645	173	158	544	514	31.6	41.6	7.7	80.6	72.5	48.4	19.4	38.7
THF23	712	189	158	544	514	34.7	45.7	8.5	89.0	80.1	53.4	21.4	42.7
THF25	775	205	158	544	514	37.7	49.6	9.2	96.9	87.2	58.1	23.3	46.5
THF27	841	221	158	544	514	40.7	53.5	9.9	105.1	94.6	63.1	25.2	50.5



MOTIVE POWER BATTERIES

EXIDE HSP CLASSIC MOTIVE POWER RANGE

DIN RANGE CELLS (198 MM WIDE)

Type of Cell	Ah@C5 at 30°C	Cell Dimension in				Cell Weights in Kg.			Charging Current in Ampres				
		Length +/- -2mm	Width +/- -2mm	Overall Height +/- -5mm	Height upto Lid Top +/- -5mm	Without Acid +/- -5%	With Acid +/- -5%	Quantity of Acid (Ltr.)	Taper charging Single Step Charger		Equalising rate (Amps.)	Constant Current charging rate (Amps.)	
									at 2.1 vpc				at 2.5 vpc
									Taper 2:1 (Amps)	Taper 1.7:1 (Amps)			
									(Amps.)				
XWAF5	120	47	198	378	348	6.4	8.3	1.5	15.0	13.5	9.0	3.6	7.2
XWAF7	180	65	198	378	348	9.1	12.1	2.3	22.5	20.3	13.5	5.4	10.8
XWAF9	240	83	198	378	348	11.8	15.7	3.0	30.0	27.0	18.0	7.2	14.4
XWAF11	300	101	198	378	348	14.5	19.3	3.7	37.5	33.8	22.5	9.0	18.0
XWAF13	360	119	198	378	348	17.3	23.1	4.5	45.0	40.5	27.0	10.8	21.6
XWAF15	420	137	198	378	348	20.0	26.7	5.2	52.5	47.3	31.5	12.6	25.2
XWAF17	480	155	198	378	348	22.8	30.5	5.9	60.0	54.0	36.0	14.4	28.8
XWAF19	540	173	198	378	348	25.5	34.2	6.7	67.5	60.8	40.5	16.2	32.4
XWAF21	600	191	198	378	348	28.3	37.8	7.4	75.0	67.5	45.0	18.0	36.0
XWBF5	160	47	198	445	415	8.2	10.5	1.7	20.0	18.0	12.0	4.8	9.6
XWBF7	240	65	198	445	415	11.7	15.3	2.7	30.0	27.0	18.0	7.2	14.4
XWBF9	320	83	198	445	415	15.2	19.9	3.6	40.0	36.0	24.0	9.6	19.2
XWBF11	400	101	198	445	415	18.6	24.4	4.5	50.0	45.0	30.0	12.0	24.0
XWBF13	480	119	198	445	415	22.1	29.1	5.4	60.0	54.0	36.0	14.4	28.8
XWBF15	560	137	198	445	415	25.6	33.7	6.3	70.0	63.0	42.0	16.8	33.6
XWBF17	640	155	198	445	415	29.2	38.4	7.3	80.0	72.0	48.0	19.2	38.4
XWBF19	720	173	198	445	415	32.6	43.1	8.1	90.0	81.0	54.0	21.6	43.2
XWBF21	800	191	198	445	415	36.1	47.7	9.0	100.0	90.0	60.0	24.0	48.0
XWCF5	180	47	198	494	464	9.3	11.9	2.0	22.5	20.3	13.5	5.4	10.8
XWCF7	270	65	198	494	464	13.5	17.6	3.1	33.8	30.4	20.3	8.1	16.2
XWCF9	360	83	198	494	464	17.6	23.0	4.2	45.0	40.5	27.0	10.8	21.6
XWCF11	450	101	198	494	464	21.8	28.4	5.1	56.3	50.6	3.8	13.5	27.0
XWCF13	540	119	198	494	464	26.0	34.0	6.2	67.5	60.8	40.5	16.2	32.4
XWCF15	630	137	198	494	464	30.1	39.4	7.2	78.8	70.9	47.3	18.9	37.8
XWCF17	720	155	198	494	464	34.3	44.9	8.2	90.0	81.0	54.0	21.6	43.2
XWCF19	810	173	198	494	464	38.4	50.4	9.3	101.3	91.1	60.8	24.3	48.6
XWCF21	900	191	198	494	464	42.6	55.8	10.2	112.5	101.3	67.5	27.0	54.0
XWEF5	220	47	198	582	552	11.5	14.5	2.3	27.5	24.8	16.5	6.6	13.2
XWEF7	330	65	198	582	552	16.5	21.2	3.7	41.3	37.1	24.8	9.9	19.8
XWEF9	440	83	198	582	552	21.4	27.7	4.9	55.0	49.5	33.0	13.2	26.4
XWEF11	550	101	198	582	552	26.3	34.1	6.0	68.8	61.9	41.3	16.5	33.0
XWEF13	660	119	198	582	552	31.2	40.7	7.3	82.5	74.3	49.5	19.8	39.6
XWEF15	770	137	198	582	552	36.2	47.1	8.5	96.3	86.6	57.8	23.1	46.2
XWEF17	880	155	198	582	552	41.2	53.7	9.7	110.0	99.0	66.0	26.4	52.8
XWEF19	990	173	198	582	552	46.1	60.3	11.0	123.8	111.4	74.3	29.7	59.4
XWEF21	1100	191	198	582	552	51.1	66.6	12.1	137.5	123.8	82.5	33.0	66.0



MOTIVE POWER BATTERIES

EXIDE HSP CLASSIC MOTIVE POWER RANGE CONTD.

DIN RANGE CELLS (198 MM WIDE)

Type of Cell	Ah@C5 at 30°C	Cell Dimension in				Cell Weights in Kg.			Charging Current in Ampres				
		Length +/- 2mm	Width +/- 2mm	Overall Height +/- 5mm	Height upto Lid Top +/- 5mm	Without Acid +/- 5%	With Acid +/- 5%	Quantity of Acid (Ltr.)	Taper charging Single Step Charger			Equalising rate (Amps.)	Constant Current charging rate (Amps.)
									at 2.1 vpc		at 2.5 vpc		
									Taper 2:1 (Amps)	Taper 1.7:1 (Amps)	(Amps.)		
XWFF5	220	47	198	611	581	11.8	15.1	2.5	27.5	24.8	16.5	6.6	13.2
XWFF7	330	65	198	611	581	16.8	22.0	4.0	41.3	37.1	24.8	9.9	19.8
XWFF9	440	83	198	611	581	21.7	28.6	5.3	55.0	49.5	33.0	13.2	26.4
XWFF11	550	101	198	611	581	26.6	35.1	6.5	68.8	61.9	41.3	16.5	33.0
XWFF13	660	119	198	611	581	31.6	41.8	7.9	82.5	74.3	49.5	19.8	39.6
XWFF15	770	137	198	611	581	36.5	48.4	9.2	96.3	86.6	57.8	23.1	46.2
XWFF17	880	155	198	611	581	41.7	55.3	10.5	110.0	99.0	66.0	26.4	52.8
XWFF19	990	173	198	611	581	46.7	62.0	11.9	123.8	111.4	74.3	29.7	59.4
XWFF21	1100	191	198	611	581	51.6	68.5	13.1	137.5	123.8	82.5	33.0	66.0
LXWFF5	280	47	198	729	699	14.3	18.3	3.0	35.0	31.5	21.0	8.4	16.8
LXWFF7	420	65	198	729	699	20.5	26.7	4.8	52.5	47.3	31.5	12.6	25.2
LXWFF9	560	83	198	729	699	26.6	34.8	6.4	70.0	63.0	42.0	16.8	33.6
LXWFF11	700	101	198	729	699	32.6	42.7	7.8	87.5	78.8	52.5	21.0	42.0
LXWFF13	840	119	198	729	699	38.7	51.0	9.5	105.0	94.5	63.0	25.2	50.4
LXWFF15	980	137	198	729	699	44.8	59.0	11.0	127.5	110.3	73.5	29.4	58.8
LXWFF17	1120	155	198	729	699	51.2	67.4	12.6	140.0	126.0	84.0	33.6	67.2
LXWFF19	1260	173	198	729	699	57.3	75.6	14.2	157.5	141.8	94.5	37.8	75.6
LXWFF21	1400	191	198	729	699	63.4	83.6	15.7	175.0	157.5	105.0	42.0	84.0
XWFF5	280	47	198	753	723	14.4	18.6	3.2	35.0	31.5	21.0	8.4	16.8
XWFF7	420	65	198	753	723	20.6	27.1	5.0	52.5	47.3	31.5	12.6	25.2
XWFF9	560	83	198	753	723	26.7	35.3	6.6	70.0	63.0	42.0	16.8	33.6
XWFF11	700	101	198	753	723	32.8	43.4	8.2	87.5	78.8	52.5	21.0	42.0
XWFF13	840	119	198	753	723	39.0	51.8	9.9	105.5	94.5	63.0	25.2	50.4
XWFF15	980	137	198	753	723	45.1	59.9	11.5	122.5	110.3	73.5	29.4	58.8
XWFF17	1120	155	198	753	723	51.5	68.4	13.1	140.0	126.0	84.0	33.6	67.2
XWFF19	1260	173	198	753	723	57.6	76.8	14.8	157.5	141.8	94.5	37.8	75.6
XWFF21	1400	191	198	753	723	63.8	84.9	16.3	175.0	157.5	105.0	42.0	84.0



EXIDE GenX EXTRA CAPACITY, EXTRA LIFE

EXIDE GENX MOTIVE POWER RANGE

BS RANGE OF CELLS (158 MM WIDE)

Type of Cell	Ah@C5 at 30°C	Cell Dimension in				Cell Weights in Kg.			Charging Current				
		Length +/- 2mm	Width +/- 2mm	Overall Height +/- 5mm	Height upto Lid Top +/- 5mm	Dry Weight (kg) +/- 5%	Acid Volume (Ltr.)	Filled Weight (kg.) +/- 5%	Taper charging Single Step Charger			Equalising rate (Amps.)	Constant Current charging rate (Amps.)
									at 2.1 vpc		at 2.5 vpc		
									Taper 2:1 (Amps)	Taper 1.7:1 (Amps)	(Amps.)		
EXXVF5	64	47	158	294	264	4.3	1.0	5.5	8.0	7.2	4.8	1.9	3.8
EXXVF7	96	61	158	294	264	5.9	1.3	7.6	12.0	10.8	7.2	2.9	5.8
EXXVF9	128	77	158	294	264	7.5	1.7	9.8	16.0	14.4	9.6	3.8	7.7
EXXVF11	160	93	158	294	264	9.2	2.1	11.8	20.0	18.0	12.0	4.8	9.6
EXXVF13	192	109	158	294	264	10.8	2.5	14.0	24.0	21.6	14.4	5.8	11.5
EXXVF15	224	125	158	294	264	12.5	2.8	16.1	28.0	25.2	16.8	6.7	13.4
EXXVF17	256	141	158	294	264	14.1	3.2	18.3	32.0	28.8	19.2	7.7	15.4
EXXVF19	288	157	158	294	264	16.4	3.6	21.0	36.0	32.4	21.6	8.6	17.3
EXXVF21	320	173	158	294	264	18.0	4.0	23.1	40.0	36.0	24.0	9.6	19.2
EXXVF23	352	189	158	294	264	19.7	4.4	25.3	44.0	39.6	26.4	10.6	21.1
EXXVF25	384	205	158	294	264	21.3	4.7	27.4	48.0	43.2	28.8	11.5	23.0
EXXVF27	416	221	158	294	264	22.9	5.1	29.5	52.0	46.8	31.2	12.5	25.0
EXIMF5	84	47	158	353	323	5.3	1.3	6.9	10.5	9.5	6.3	2.5	5.0
EXIMF7	126	61	158	353	323	7.4	1.8	9.7	15.8	14.2	9.5	3.8	7.6
EXIMF9	168	77	158	353	323	9.5	2.3	12.5	21.0	18.9	12.6	5.0	10.1
EXIMF11	210	93	158	353	323	11.6	2.8	15.2	26.3	23.6	15.8	6.3	12.6
EXIMF13	252	109	158	353	323	13.7	3.3	18.0	31.5	28.4	18.9	7.6	15.1
EXIMF15	294	125	158	353	323	15.8	3.8	20.7	36.8	33.1	22.1	8.8	17.6
EXIMF17	336	141	158	353	323	18.0	4.3	23.6	42.0	37.8	25.2	10.1	20.2
EXIMF19	378	157	158	323	323	20.7	4.8	26.9	47.3	42.5	28.4	11.3	22.7
EXIMF21	420	173	158	353	323	22.8	5.3	29.7	52.5	47.3	31.5	12.6	25.2
EXIMF23	462	189	158	353	323	24.9	5.8	32.4	57.8	52.0	34.7	13.9	27.7
EXIMF25	504	205	158	353	323	27.0	6.3	35.3	63.0	56.7	37.8	15.1	30.2
EXIMF27	546	221	158	353	323	29.1	6.8	37.9	68.3	61.4	41.0	16.4	32.8
EXILF5	110	47	158	430	400	6.4	1.6	8.4	13.8	12.4	8.3	3.3	6.6
EXILF7	165	61	158	430	400	9.0	2.2	11.8	20.6	18.6	12.4	5.0	9.9
EXILF9	220	77	158	430	400	11.6	2.8	15.3	27.5	24.8	16.5	6.6	13.2
EXILF11	275	93	158	430	400	14.5	3.4	18.8	34.4	30.9	20.3	8.3	16.5
EXILF13	330	109	158	430	400	17.1	4.0	22.3	41.3	37.1	24.8	9.9	19.8
EXILF15	385	125	158	430	400	19.8	4.6	25.7	48.1	43.3	28.9	11.6	23.1
EXILF17	440	141	158	430	400	22.5	5.3	29.3	55.0	49.5	33.0	13.2	26.4
EXILF19	495	157	158	430	400	25.7	5.9	33.3	61.9	55.7	37.1	14.9	29.7
EXILF21	550	173	158	430	400	28.3	6.5	36.7	68.8	61.9	41.3	16.5	33.0
EXILF23	605	189	158	430	400	31.1	7.1	40.3	75.6	68.1	45.4	18.2	36.3
EXILF25	660	205	158	430	400	33.7	7.7	43.7	82.5	74.3	49.5	19.8	39.6
EXILF27	715	221	158	430	400	36.4	8.3	47.1	89.4	80.4	53.6	21.5	42.9
EXTLF5	130	47	158	480	450	7.2	1.8	9.5	16.3	14.6	9.8	3.9	7.8
EXTLF7	195	61	158	480	450	10.2	2.4	13.4	24.4	21.9	14.6	5.9	11.7
EXTLF9	260	77	158	480	450	13.3	3.1	17.4	32.5	29.3	19.5	7.8	15.6
EXTLF11	325	93	158	480	450	16.4	3.7	21.2	40.6	36.6	24.4	9.8	19.5
EXTLF13	390	109	158	480	450	19.4	4.5	25.2	48.8	43.9	29.3	11.7	23.4
EXTLF15	455	125	158	480	450	22.5	5.1	29.1	56.9	51.2	34.1	13.7	27.3
EXTLF17	520	141	158	480	450	25.6	5.9	33.2	65.0	58.5	39.0	15.6	31.2
EXTLF19	585	157	158	480	450	29.2	6.5	37.7	73.1	65.8	43.9	17.6	35.1
EXTLF21	650	173	158	480	450	32.2	7.2	41.5	81.3	73.1	48.8	19.5	39.0
EXTLF23	715	189	158	480	450	35.4	7.9	45.6	89.4	80.4	53.6	21.5	42.9
EXTLF25	780	205	158	480	450	38.4	8.9	49.5	97.5	87.8	58.5	23.4	46.8
EXTLF27	845	221	158	480	450	41.5	9.2	53.4	105.6	95.1	63.4	25.4	50.7



EXIDE GenX EXTRA CAPACITY, EXTRA LIFE

EXIDE GENX MOTIVE POWER RANGE CONTD.

BS RANGE CELLS (158 MM WIDE)

Type of Cell	Ah@C5 at 30°C	Cell Dimension in				Cell Weights in Kg.			Charging Current				
		Length +/- 2mm	Width +/- 2mm	Overall Height +/- 5mm	Height upto Lid Top +/- 5mm	Dry Weight (kg) +/- 5%	Acid Volume (Ltr.)	Filled Weight (kg.) +/- 5%	Taper charging Single Step Charger			Equalising rate (Amps.)	Constant Current charging rate (Amps.)
									at 2.1 vpc		at 2.5 vpc		
									Taper 2:1 (Amps)	Taper 1.7:1 (Amps)	(Amps.)		
EXTHF5	150	47	158	539	509	8.2	2.0	10.7	18.8	16.9	11.3	4.5	9.0
EXTHF7	225	61	158	539	509	11.7	2.7	15.1	28.1	25.3	16.9	6.8	13.5
EXTHF9	300	77	158	539	509	15.1	3.5	19.7	37.5	33.8	22.5	9.0	18.0
EXTHF11	375	93	158	539	509	18.6	4.2	24.0	46.9	42.2	28.1	11.3	22.5
EXTHF13	450	109	158	539	509	22.0	5.0	28.5	56.3	50.6	33.8	13.5	27.0
EXTHF15	525	125	158	539	509	22.5	5.7	32.8	65.6	59.1	39.4	15.8	31.5
EXTHF17	600	141	158	539	509	29.0	6.5	37.5	75.0	67.5	45.0	18.0	36.0
EXTHF19	675	157	158	539	509	33.0	7.2	42.5	84.4	75.9	50.6	20.3	40.5
EXTHF21	750	173	158	539	509	36.4	8.0	46.7	93.8	84.4	56.3	22.5	45.0
EXTHF23	825	189	158	539	509	40.0	8.8	51.3	103.1	92.8	61.9	24.8	49.5
EXTHF25	900	205	158	539	509	43.4	9.5	55.7	112.5	101.3	67.5	27.0	54.0
EXTHF27	975	221	158	539	509	46.8	10.3	60.1	121.9	109.7	73.1	29.3	58.5
EXTOF5	172	47	158	597	567	8.8	2.2	11.7	21.5	19.4	12.9	5.2	10.3
EXTOF7	258	61	158	597	567	12.8	3.0	16.7	32.3	29.0	19.4	7.7	15.5
EXTOF9	344	77	158	597	567	16.7	3.9	21.7	43.0	38.7	25.8	10.3	20.6
EXTOF11	430	93	158	597	567	20.6	4.7	26.6	53.8	48.4	32.3	12.9	25.8
EXTOF13	516	109	158	597	567	24.5	5.6	31.7	64.5	58.1	38.7	15.5	31.0
EXTOF15	602	125	158	597	567	28.4	6.4	36.7	75.3	67.7	45.2	18.1	36.1
EXTOF17	688	141	158	597	567	32.4	7.3	41.9	86.0	77.4	51.6	20.6	41.3
EXTOF19	774	157	158	597	567	36.9	8.1	47.4	96.8	87.1	58.1	23.2	46.4
EXTOF21	860	173	158	597	567	40.7	9.0	52.3	107.5	96.8	64.5	25.8	51.6
EXTOF23	946	189	158	597	567	44.7	9.9	57.5	118.3	106.4	71.0	28.4	56.8
EXTOF25	1032	205	158	597	567	48.6	10.7	62.5	129.0	116.1	77.4	31.10	61.9
EXTOF27	1118	221	158	597	567	52.6	11.5	67.5	139.8	125.8	83.9	33.5	67.1
ELXTEF5	200	47	158	634	604	9.6	2.4	12.6	25.0	22.5	15.0	6.0	12.0
ELXTEF7	300	61	158	634	604	13.9	3.3	18.1	37.5	33.8	22.5	9.0	18.0
ELXTEF9	400	77	158	634	604	18.2	4.2	23.6	50.0	45.0	30.0	12.0	24.0
ELXTEF11	500	93	158	634	604	22.4	5.0	28.9	32.5	56.3	37.5	15.0	30.0
ELXTEF13	600	109	158	634	604	26.7	6.0	34.5	75.0	67.5	45.0	18.0	36.0
ELXTEF15	700	125	158	634	604	31.0	6.9	39.8	87.5	78.8	52.5	21.0	42.0
ELXTEF17	800	141	158	634	604	35.3	7.9	45.5	100.0	90.0	60.0	24.0	48.0
ELXTEF19	900	157	158	634	604	40.1	8.8	51.5	112.5	101.3	67.5	27.0	54.0
ELXTEF21	1000	173	158	634	604	44.3	9.7	56.8	125.0	112.5	75.0	30.0	60.0
ELXTEF23	1100	189	158	634	604	48.7	10.6	62.4	137.5	123.8	82.5	33.0	66.0
ELXTEF25	1200	205	158	634	604	52.9	11.5	67.8	150.0	135.0	90.0	36.0	72.0
ELXTEF27	1300	221	158	634	604	57.2	12.4	73.2	162.5	146.3	97.5	39.0	78.0
EXTEF5	216	47	158	708	678	10.7	2.6	14.1	27.0	24.3	16.2	6.5	13.0
EXTEF7	324	61	158	708	678	15.5	3.6	20.2	40.5	36.5	24.3	9.7	19.4
EXTEF9	432	77	158	708	678	20.3	4.7	26.3	54.0	48.6	32.4	13.0	25.9
EXTEF11	540	93	158	708	678	25.0	5.6	32.3	67.5	60.8	40.5	16.2	32.4
EXTEF13	648	109	158	708	678	29.8	6.7	38.4	81.0	72.9	48.6	19.4	38.9
EXTEF15	756	125	158	708	678	34.5	7.6	44.4	94.5	85.1	56.7	22.7	45.4
EXTEF17	864	141	158	708	678	39.4	8.8	50.7	108.0	97.2	64.8	25.9	51.8
EXTEF19	972	157	158	708	678	44.7	9.7	57.3	121.5	109.4	72.9	29.2	58.3
EXTEF21	1080	173	158	708	678	49.3	10.7	63.2	135.0	121.5	81.0	32.4	64.8
EXTEF23	1188	189	158	708	678	54.3	11.8	69.5	148.5	133.7	89.1	35.6	71.3
EXTEF25	1296	205	158	708	678	59.0	12.8	75.6	162.0	145.8	97.2	38.9	77.8
EXTEF27	1404	221	158	708	678	63.8	13.7	81.6	175.5	158.0	105.3	42.1	84.2



EXIDE GenX EXTRA CAPACITY, EXTRA LIFE

EXIDE GENX MOTIVE POWER RANGE

DIN RANGE OF CELLS (198 MM WIDE)

Type of Cell	Ah@C5 at 30°C	Cell Dimension in				Cell Weights in Kg.			Charging Current				
		Length +/- 2mm	Width +/- 2mm	Overall Height +/- 5mm	Height upto Lid Top +/- 5mm	Dry Weight (Kg.) +/- 5%	Acid Volume (Ltr.)	Filled Weight (Kg.) +/- 5%	Taper Charging Single Step Charger			Equalising rate (Amps.)	Constant Current charging rate (Amps.)
									at 2.1 vpc		at 2.5 vpc		
									Taper 2:1 (Amps.)	Taper 1.7:1 (Amps.)	(Amps.)		
EXWAF5	120	47	198	362	332	6.6	1.4	8.4	15.0	13.5	9.0	3.6	7.2
EXWAF7	180	65	198	362	332	9.5	2.2	12.3	22.5	20.3	13.5	5.4	10.8
EXWAF9	240	83	198	362	332	12.3	3.0	16.1	30.0	27.0	18.0	7.2	14.4
EXWAF11	300	101	198	362	332	15.1	3.6	19.8	37.5	33.8	22.5	9.0	18.0
EXWAF13	360	119	198	362	332	17.9	4.4	23.6	45.0	40.5	27.0	10.8	21.6
EXWAF15	420	137	198	362	332	20.8	5.1	27.3	52.5	47.3	31.5	12.6	25.2
EXWAF17	480	155	198	362	332	23.6	5.8	31.1	60.0	54.0	36.0	14.4	28.8
EXWAF19	540	173	198	362	332	26.4	6.6	35.0	67.5	60.8	40.5	16.2	32.4
EXWAF21	600	191	198	362	332	29.3	7.3	38.6	75.0	67.5	45.0	18.0	36.0
EXWBF5	160	47	198	430	400	8.8	1.7	11.0	20.0	18.0	12.0	4.8	9.6
EXWBF7	240	65	198	430	400	12.5	2.7	16.0	30.0	27.0	18.0	7.2	14.4
EXWBF9	320	83	198	430	400	16.2	3.6	20.8	40.0	36.0	24.0	9.6	19.2
EXWBF11	400	101	198	430	400	19.9	4.4	25.6	50.0	45.0	30.0	12.0	24.0
EXWBF13	480	119	198	430	400	23.6	5.4	30.5	60.0	54.0	36.0	14.4	28.8
EXWBF15	560	137	198	430	400	27.3	6.2	35.3	70.0	63.0	42.0	16.8	33.6
EXWBF17	640	155	198	430	400	31.0	7.1	40.1	80.0	72.0	48.0	19.2	38.4
EXWBF19	720	173	198	430	400	34.7	8.0	45.0	90.0	81.0	54.0	21.6	43.2
EXWBF21	800	191	198	430	400	38.4	8.8	49.8	100.0	90.0	60.0	24.0	48.0
EXWCF5	180	47	198	490	460	9.3	2.0	11.9	22.5	20.3	13.5	5.4	10.8
EXWCF7	270	65	198	490	460	13.5	3.1	17.6	33.8	30.4	20.3	8.1	16.2
EXWCF9	360	83	198	490	460	17.6	4.2	23.0	45.0	40.5	27.0	10.8	21.6
EXWCF11	450	101	198	490	460	21.8	5.1	28.4	56.3	50.6	33.8	13.5	27.0
EXWCF13	540	119	198	490	460	26.0	6.2	34.0	67.5	60.8	40.5	16.2	32.4
EXWCF15	630	137	198	490	460	30.1	7.2	39.4	78.8	70.9	47.3	18.9	37.8
EXWCF17	720	155	198	490	460	34.3	8.2	44.9	90.0	81.0	54.0	21.6	43.2
EXWCF19	810	173	198	490	460	38.4	9.3	50.4	101.3	91.1	60.8	24.3	48.6
EXWCF21	900	191	198	490	460	42.6	10.2	55.8	112.5	101.3	67.5	27.0	54.0
EHXWCF5	210	47	198	540	510	10.5	2.2	13.4	26.3	23.6	15.8	6.3	12.6
EHXWCF7	315	65	198	540	510	15.3	3.5	19.7	39.4	35.4	23.6	9.5	18.9
EHXWCF9	420	83	198	540	510	19.9	4.6	25.9	52.5	47.3	31.5	12.6	25.2
EHXWCF11	525	101	198	540	510	24.6	5.7	32.0	65.6	59.1	39.4	15.8	31.5
EHXWCF13	630	119	198	540	510	29.3	6.9	38.2	78.8	70.9	47.3	18.9	37.8
EHXWCF15	735	137	198	540	510	34.0	8.0	44.3	91.9	82.7	55.1	22.1	44.1
EHXWCF17	840	155	198	540	510	38.7	9.1	50.5	105.0	94.5	63.0	25.2	50.4
EHXWCF19	945	173	198	540	510	43.4	10.3	56.8	118.1	106.3	70.9	28.4	56.7
EHXWCF21	1050	191	198	540	510	48.1	11.4	62.9	131.3	118.1	78.8	31.5	63.0



EXIDE GenX EXTRA CAPACITY, EXTRA LIFE

EXIDE GENX MOTIVE POWER RANGE CONTD.

DIN RANGE CELLS (198 MM WIDE)

Type of Cell	Ah@C5 at 30°C	Cell Dimension in				Cell Weights in Kg.			Charging Current				
		Length +/- 2mm	Width +/- 2mm	Overall Height +/- 5mm	Height upto lid top (mm) +/- 5mm	Dry Weight (Kg.) +/- 5%	Acid Volume (Ltr.)	Filled Weight (Kg.) +/- 5%	Taper Charging-Single Step Charger			Equalising rate (Amps.)	Constant Current charging rate (Amps.)
									at 2.1 vpc		at 2.5 vpc		
									Taper 2:1 (Amps.)	Taper 1.7:1 (Amps.)	(Amps.)		
ELXWEF5	230	47	198	565	535	11.1	2.3	14.1	28.8	25.9	17.3	6.9	13.8
ELXWEF7	345	65	198	565	535	16.1	3.7	20.9	43.1	38.8	25.9	10.4	20.7
ELXWEF9	460	83	198	565	535	21.1	4.9	27.4	57.5	51.8	34.5	13.8	27.6
ELXWEF11	575	101	198	565	535	26.1	6.0	33.8	71.9	64.7	43.1	17.3	34.5
ELXWEF13	690	119	198	565	535	31.0	7.3	40.4	86.3	77.6	51.8	20.7	41.4
ELXWEF15	805	137	198	565	535	36.0	8.4	46.8	100.6	90.6	60.4	24.2	48.3
ELXWEF17	920	155	198	565	535	41.0	9.6	53.4	115.0	103.5	69.0	27.6	55.2
ELXWEF19	1035	173	198	565	535	46.0	10.9	60.0	129.4	116.4	77.6	31.1	62.1
ELXWEF21	1150	191	198	565	535	51.0	12.0	66.4	143.8	129.4	86.3	34.5	69.0
EXWEF5	250	47	198	601	571	11.9	2.5	15.1	31.3	28.1	18.8	7.5	15.0
EXWEF7	375	65	198	601	571	17.3	3.9	22.4	46.9	42.2	28.1	11.3	22.5
EXWEF9	500	83	198	601	571	22.7	5.2	29.4	62.5	56.3	37.5	15.0	30.0
EXWEF11	625	101	198	601	571	28.0	6.4	36.2	78.1	70.3	46.9	18.8	37.5
EXWEF13	750	119	198	601	571	33.4	7.8	43.4	93.8	84.4	56.3	22.5	45.0
EXWEF15	875	137	198	601	571	38.7	9.0	50.3	109.4	98.4	65.6	26.3	52.5
EXWEF17	1000	155	198	601	571	44.1	10.3	57.3	125.0	112.5	75.0	30.0	60.0
EXWEF19	1125	173	198	601	571	49.4	11.6	64.4	140.6	126.6	84.4	33.8	67.5
EXWEF21	1250	191	198	601	571	54.8	12.8	71.3	156.3	140.6	93.8	37.5	75.0
ELXWFF5	280	47	198	715	685	13.8	3.0	17.7	35.0	31.5	21.0	8.4	16.8
ELXWFF7	420	65	198	715	685	20.2	4.7	26.2	52.5	47.3	31.5	12.6	25.2
ELXWFF9	560	83	198	715	685	26.4	6.3	34.5	70.0	63.0	42.0	16.8	33.6
ELXWFF11	700	101	198	715	685	32.7	7.7	42.6	87.5	78.8	52.5	21.0	42.0
ELXWFF13	840	119	198	715	685	38.9	9.3	51.0	105.0	94.5	63.0	25.2	50.4
ELXWFF15	980	137	198	715	685	45.2	10.8	59.1	122.5	110.3	73.5	29.4	58.8
ELXWFF17	1120	155	198	715	685	51.5	12.3	67.4	140.0	126.0	84.0	33.6	67.2
ELXWFF19	1260	173	198	715	685	57.8	14.0	75.8	157.5	141.8	94.5	37.8	75.6
ELXWFF21	1400	191	198	715	685	64.1	15.4	83.9	175.0	157.5	105.0	42.0	84.0
EXWFF5	310	47	198	742	712	14.8	3.2	18.9	38.8	34.9	23.3	9.3	18.6
EXWFF7	465	65	198	742	712	21.5	4.9	27.8	58.1	52.3	34.9	14.0	27.9
EXWFF9	620	83	198	742	712	28.0	6.5	36.5	77.5	69.8	46.5	18.6	37.2
EXWFF11	775	101	198	742	712	34.6	8.1	45.0	96.9	87.2	58.1	23.3	46.5
EXWFF13	930	119	198	742	712	41.1	9.8	53.8	116.3	104.6	69.8	27.9	55.8
EXWFF15	1085	137	198	742	712	47.7	11.3	62.3	135.6	122.1	81.4	32.6	65.1
EXWFF17	1240	155	198	742	712	54.3	12.9	71.0	155.0	139.5	93.0	37.2	74.4
EXWFF19	1395	173	198	742	712	60.9	14.6	79.8	174.4	156.9	104.6	41.9	83.7
EXWFF21	1550	191	198	742	712	67.5	16.1	88.3	193.8	174.4	116.3	46.5	93.0



APPLICATIONS



Exide range of Traction batteries are most suitable for the following applications:



ELECTRIC FORK-LIFT TRUCKS :

Exide batteries are the best choice for all major Electric Fork Lift Truck manufacturers in India- Godrej, Macneill, Maini, Josts, Voltas, Jaldoot and others. The recommended Replacement Charts indicate relevant details pertaining to fitment of batteries in the commonly used trucks. Exide Traction batteries are also suitable for fitment to imported trucks like Komatsu, Yale, Still, Linde, Crown, Jungheinrich, and other makes.



NAVAL APPLICATIONS :

Exide batteries are also suitable for various applications in ships like corvettes, towing tugs etc. These batteries are assembled in wooden trays.



MINING LOCOMOTIVES :

Exide batteries are the best choice for providing propulsion power in Mining Locomotives-Ventra, Gem, Clayton, Sig and Skoda used in underground mines of coal, copper, manganese, zinc, gold & other metals. The battery voltages range from 60 volts to 120 volts and the batteries are assembled in several trays as per make of locomotives.



ELECTRIC VEHICLES :

Higher energy density of Exide batteries makes these most suitable for Electric vehicles and ensure longer run per charge.



CLEANING EQUIPMENTS :

Exide motive power batteries are the preferred solutions for the cleaning equipments supplied by the leading OEM's.



GOLF CART BATTERY

ESSENTIAL FOR THE GAME





EXIDE RANGE SPECIFICATION



🔋 3EV 165		Capacity C5 Capacity @ 80Amps	165Ah upto 5.0V (at 30° C) 132Ah (min) upto 5.0V (at 30° C)	
		Dry Battery Weight	21 Kgs ± 5%	
		Charged Battery Weight	30 Kgs ± 5%	
		Dimension	Height Overall (upto the terminal top)	276 ± 3.0 mm
			Width	183 ± 2.0 mm
			Length	264 ± 2.0 mm
		Fill in Electrolyte Specific Gravity	1.255 ± 0.005 (at 30° C)	
		Fill in Electrolyte Volume	2.3 Lts/Cell Energy Density	
Final Electrolyte Specific Gravity	1.275 ± 0.005 (at 30° C)			
		Energy Density	36 ± Wh/Kg (C-5 Rate)	

 3EV 200		Capacity	200Ah (at C-5 Rate) 160Ah (DCH @ 80A upto 5.0V (at 30° C)	
		Dry Battery Weight	24.5 Kgs $\pm$ 5%	
		Charged Battery Weight	32.5 Kgs $\pm$ 5%	
		Dimension	Height Overall (upto the terminal top)	276 $\pm$ 3.0 mm
			Width	183 $\pm$ 2.0 mm
			Length	264 $\pm$ 2.0 mm
		Fill in Electrolyte Specific Gravity	1.255 $\pm$ 0.005 (at 30° C)	
		Fill in Electrolyte Volume	2 Lts/Cell	
Final Electrolyte Specific Gravity	1.275 $\pm$ 0.005 (at 30° C)			
		Energy Density	36 $\pm$ Wh/Kg (C-5 Rate)	

🔋 8C 150T		Capacity	150Ah (at C-20 Rate) 114Ah (at C-5 Rate)
	Dry Battery Weight		23 Kgs $\pm$ 5%
	Charged Battery Weight		30 Kgs $\pm$ 5%
	Dimension	Height Overall (upto the terminal top)	286 $\pm$ 3.0 mm
		Width	182 $\pm$ 2.0 mm
		Length	264 $\pm$ 2.0 mm
	Fill in Electrolyte Specific Gravity		1.255 $\pm$ 0.005 (at 30 ^o C)
	Fill in Electrolyte Volume		1.5 Lts/Cell Energy Density
	Final Electrolyte Specific Gravity		1.280 $\pm$ 0.005 (at 30 ^o C)
	Energy Density		30 - 33.0 $\pm$ Wh/Kg (C-5 Rate)

🔋 8C 165T		Capacity	165Ah (at C-20 Rate) 124Ah (at C-5 Rate)
	Dry Battery Weight		23 Kgs $\pm$ 5%
	Charged Battery Weight		31 Kgs $\pm$ 5%
	Dimension	Height Overall (upto the terminal top)	286 $\pm$ 3.0 mm
		Width	182 $\pm$ 2.0 mm
		Length	264 $\pm$ 2.0 mm
	Fill in Electrolyte Specific Gravity		1.255 $\pm$ 0.005 (at 30 ^o C)
	Fill in Electrolyte Volume		1.4 Lts/Cell
	Final Electrolyte Specific Gravity		1.280 $\pm$ 0.005 (at 30 ^o C)
	Energy Density		30 - 33.0 $\pm$ Wh/Kg (C-5 Rate)

🔋 6C 225		Capacity C5 Capacity @ 80Amps	225Ah (at C-20 Rate) 171Ah (at C-5 Rate)
	Dry Battery Weight		24 Kgs $\pm$ 5%
	Charged Battery Weight		30 Kgs $\pm$ 5%
	Dimension	Height Overall (upto the terminal top)	285 $\pm$ 3.0 mm
		Width	182 $\pm$ 2.0 mm
		Length	264 $\pm$ 2.0 mm
	Fill in Electrolyte Specific Gravity		1.255 $\pm$ 0.005 (at 30 ^o C)
	Fill in Electrolyte Volume		2 Lts/Cell
	Final Electrolyte Specific Gravity		1.280 $\pm$ 0.005 (at 30 ^o C)
	Energy Density		31 - 33.0 $\pm$ Wh/Kg (C-5 Rate)



ADVANTAGE EXIDE



Technology :

Exide Traction batteries have their spines or the positive plate support cast at high pressure (100 Bar) in imported "HADI" machine to ensure uniform micro hardness, uni-directional grain orientation and zero voids and hence provide longer life to the battery.

Experience :

Over 70 years of accumulated experience in Research and Development, Manufacturing & Field Operations.



Manufacturing Base :

The only company with multi-locational manufacturing units spread across the country and equipped with the world's latest and most advanced machineries.

Network :

Easy accessibility with 4 Regional offices, 24 Branch offices, 30 Exide Power Centres & over 500 industrial dealers spread all over the country. Trained and experienced manpower at each location ensuring immediate services and zero downtime.

One-stop Shop :

Exide offers total solution including equipment selection, installation, operation and maintenance, all under one roof.

R&D Centre :

Exide R&D Centre, set up in 1976, is counted among the premier battery research facilities in the world & is recognised by the department of Scientific and Industrial Research under Ministry of Science and Technology, Govt. of India.

Global Quality :

ISO 9001 certification by RWTUV of Germany.

Eco-friendly :

ISO 14001 certification ensuring eco-friendly production process. The used batteries are taken back for recycling at approved smelter premises to avoid environmental damage.



DO'S AND DONT'S FOR **EXIDE** TRACTION BATTERY



Do's	Dont's
1. Check the electrolyte level before charging & top it up with proper battery grade water as per BIS specification no. 1069 up to maximum level of basket type level indicator or slightly above the separators. For quick and safe top up, use Exide Autofil System. 2. Match the battery to the correct charger and have it checked periodically to avoid improper charging. 3. Recharge the battery daily unless the battery has been lightly discharged through under utilization. 4. Give equalizing charge to the battery one in a week after normal charge. 5. Lift the battery compartment lid while charging, wherever possible, to assist ventilation and air-cooling. 6. Keep the battery top and tray clean and dry at all times. 7. Keep all intercell connections and bolted terminals tight and covered with a film of petroleum jelly. 8. Check the condition of charging plug socket and cable to avoid damage of insulation and burning of contacts. Refurbish or replace as necessary. 9. Maintain regular reading of specific gravity, voltage and temperature of pilot cells in Record Book. Reading of all cells should be recorded once in a month. 10. For storage of batteries in dry and unchanged condition, plug all vent holes making them airtight. 11. For storage of batteries in charged conditions, disconnect main cables connected to it and ensure that freshening charge is given to the battery once in a month. 12. Battery charging room should be well ventilated preferably with air exhaust system to prevent the battery from over heating.	1. Never leave the battery in a discharged state for than a day. 2. Never top up the cells with acid. 3. Do not maintain electrolyte level high above the separator level. This may cause the acid spill out during charging. 4. Never use tap water for battery top up. Impurities in tap water can shorten the life of a battery. 5. Never over charge the battery by recharging more frequently or longer periods than necessary to restore the capacity used. Over charging spoils the battery and shortens its life drastically. 6. Avoid naked flames, sparks and smoking near a battery. 7. Never use non-insulated tools while working on batteries. Do not wear chains or loose metal bands. This is necessary to avoid any short circuit or sparks. 8. Never keep charged battery directly under sunlight or in any heated place. 9. Never use metal vessels or jug to store battery water or acid. 10. Never allow electrolyte temperature to exceed 50°C. The charging must be suspended if it is found to exceed 50°C.



MOST IMPORTANT

- After charging, the battery should be allowed some time to cool down.
- Battery should not be kept in a discharged condition.
- Use battery grade water only for topping up.



INITIAL CHARGING

Initial charging of all traction cells shall be done in Constant Current mode at currents indicated in the table with a minimum Ah input of 5 to 5.5 times of rated C5 capacity. Charging should be continued even after the minimum Ah has been delivered till three consecutive hourly readings of Voltage and Specific Gravity are observed to be constant.



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QUICK
NOTES

Handwriting practice lines consisting of 20 horizontal dashed lines.



QUICK
NOTES

A series of horizontal dashed lines for writing notes.

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DIN EN ISO 9001 : 2008
ISO/TS 16949 : 2009
ISO 14001 : 2004
OHSAS 18001 : 2007



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