

An abstract graphic on the left side of the image depicts a battery cell. It has a central orange dot, a blue ring, and a yellow ring. Radiating lines extend from the center, some ending in small blue circles. A bright white beam of light originates from the right side of the battery cell and extends horizontally across the image. On the right side of this beam, the text "POWERING LIVES, WORLDWIDE" is written in a bold, yellow, sans-serif font. The background is a dark blue gradient with many thin, parallel white lines that create a sense of motion and depth, suggesting a global network or energy flow.

POWERING LIVES, WORLDWIDE

All automotive and power backup solutions

VISION

A customer trust winning company believes in quality products through continuous Research & Development ensuring sustainable returns to stakeholders.





CORE VALUES

- Integrity & Credibility
- Sense of Ownership
- Speak from the Heart
- Environment Friendly
- Honesty & Accountability
- Motivation & Team Work
- Innovative Thinking

COMPANY PROFILE

INTRODUCTION

As an ISO 9001, ISO 14001 & ISO 45001 certified company, leading manufacturer & exporters of automotive & specialized batteries in Pakistan since 1989. We have been producing various types of automotive and inverter batteries, under the brand name of OSAKA batteries by ACM Group of Industries. This was initially done with technical support from Chloride Industrial Batteries Limited, UK. Our Facility is equipped with experienced and skilled professionals to ensure optimum quality of our product. We are committed to continuous improvement, bringing superior performance batteries to meet the needs of our customers. It is the customer's satisfaction and confidence, supported by hardwork of our team which leads to our jubilant success.

Employees:

4000+

Product Standards:

Japanese Industrial Standards (JIS)

Deutsches Institut für Normung (DIN)

International Electro-Technical Commission (IEC)

Pakistan Standard Quality Control Authority (PSQCA)

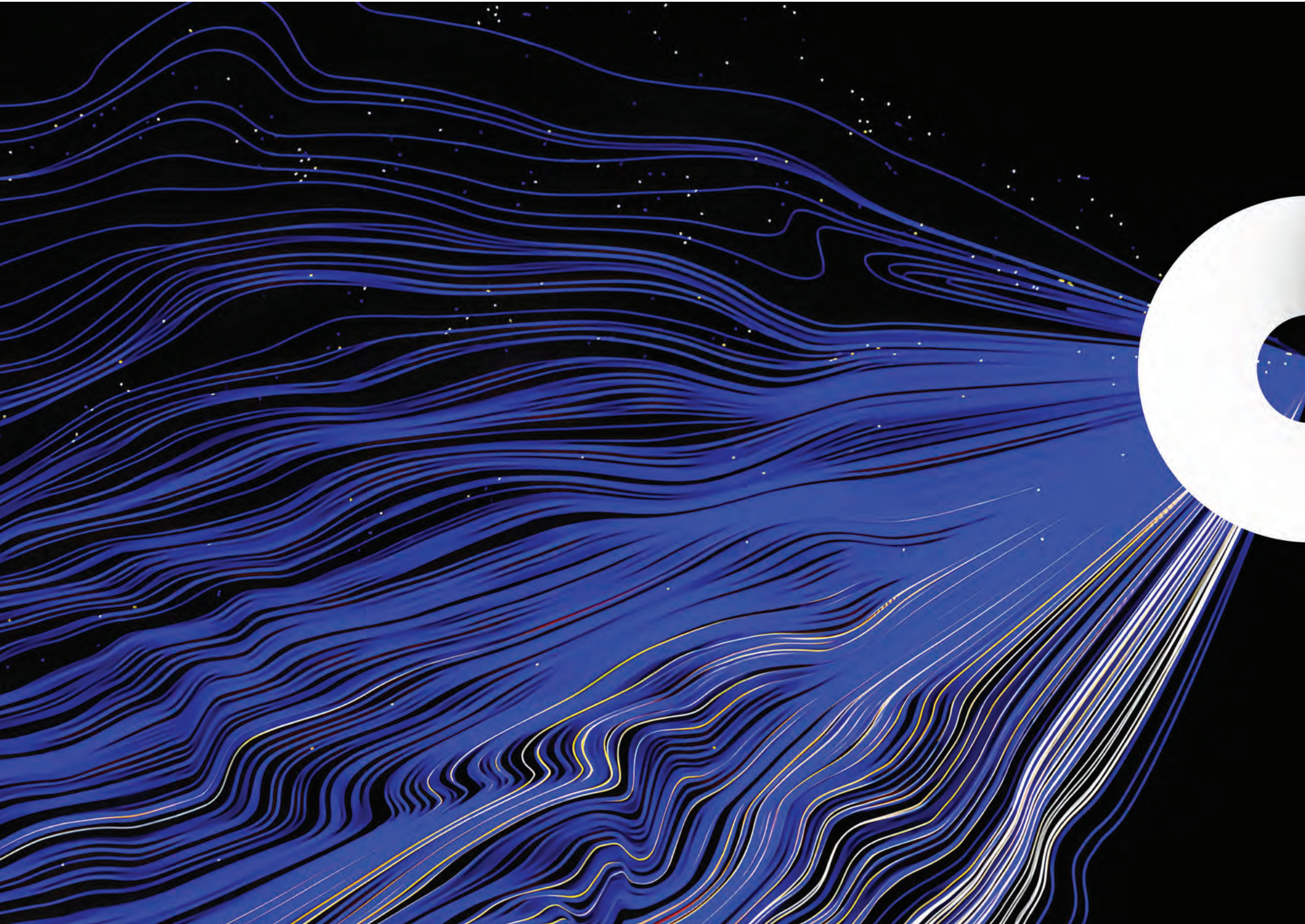
Battery Products:

- | | |
|--|-----------------|
| • Maintenance Free Calcium ⁺ Batteries: | 20AH to 150AH |
| • Lead Acid Dry Charged Batteries: | 20AH to 220AH |
| • Motorcycle Batteries: | 3AH to 28AH |
| • Golf Cart Batteries: | 160AH to 225AH |
| • Traction Cell/Batteries: | 100AH to 1000AH |
| • Tubular Flooded Deep Cycle Batteries: | 35AH to 280AH |
| • Valve Regulated Lead Acid Batteries (VRLA 12V): | 4AH to 200AH |
| • OPzS/OPzV Batteries (2V): | 150AH to 3000AH |

ACHIEVEMENTS & AWARDS

- | | |
|---|------------|
| • FPCCI Export Award: | Since 2004 |
| • Brand of the year Award: | Since 2006 |
| • Consumer Choice Award: | Since 2011 |
| • NFEH Environment Excellence Award: | Since 2018 |
| • NFEH Fire Safety Award: | Since 2018 |
| • Best Battery Manufacturing of the year Excellence Award | 2024 |





MAIN MARKETS

LOCAL

All over Pakistan, having nine Regional offices and Customer Care Centres (Peshawar, Rawalpindi, Faisalabad, Lahore, Multan, Sukkur, Hyderabad, Karachi & Quetta) to ensure maximum coverage throughout the country.

EXPORTS

More than 29 countries around the world. (Afghanistan, Bahrain, China, Djibouti, France, Iraq, Jordan, Kuwait, Lebanon, Libya, Madagascar, Maldives, Mauritius, Nepal, Nigeria, Oman, Qatar, Saudi Arabia, Singapore, Spain, Sri Lanka, Sudan, Syria, Tajikistan, Tanzania, Togo, Turkey, UAE and Yemen)

ACCREDITATION

- Quality Management Certification ISO 9001:2015
- Environment Management System ISO 14001:2015
- Occupational Health & Safety Management System ISO 45001:2018
- QA International UKAS (UK)
- IEC by CNC (Conformity 'n Compliance Services Nordheim Germany)
- Pakistan Standard Quality Control Authority (PSQCA)

ISO Certified



USA



PLATINUM SERIES



MAINTENANCE FREE CALCIUM⁺ AUTOMOTIVE BATTERIES

Osaka Batteries is always one step ahead of the market, providing new and advanced products to its customers. Maintenance free concept focuses on the effort to minimize the evaporation process inside the battery, so it does not require water addition (no maintenance check is required compared to conventional dry charged batteries).

CMF CALCIUM PLUS, AUTOMOTIVE BATTERIES (JIS STANDARD)

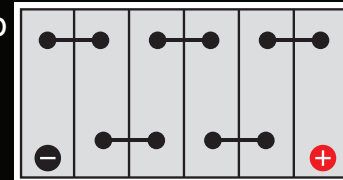
JIS Group	Battery Type	Battery Box Size	Plates per Cell	Capacity @ 20HR (AH)	RCT Min	CCA-18°C Amp	Dimension (mm)				Weight Wet (Kg)	Layout	Terminal	Hold Down
							L	W	H	TH				
B19	CMF40GENR	NS40	5	20	18	190	198	126	198	222	7.90	0	B	BO
	CMF40GENL		5	20	18	190	198	126	198	222	7.90	1	B	BO
	CMF42B20R		9	35	45	350	198	126	198	222	10.20	0	B	BO
	CMF42B20L		9	35	45	350	198	126	198	222	10.20	1	B	BO
	CMF46B20R		11	38	55	370	198	126	198	222	11.00	0	B	BO
	CMF46B20L		11	38	55	370	198	126	198	222	11.00	1	B	BO
B24	CMF48B24R	N40	9	35	60	385	236	128	200	224	11.20	0	B	BO
	CMF48B24L		9	35	60	385	236	128	200	224	11.20	1	B	BO
	CMF50B24R		11	40	65	410	236	128	200	224	12.60	0	B	BO
	CMF50B24L		11	40	65	410	236	128	200	224	12.60	1	B	BO
D23	CMF55D23R	55D23	11	60	80	440	230	173	204	220	16.80	0	A	BO
	CMF55D23L		11	60	80	440	230	173	204	220	16.80	1	A	BO
D26	CMF58D26R	N50	7	40	70	350	254	170	198	221	14.20	0	A	BO
	CMF58D26L		7	40	70	350	254	170	198	221	14.20	1	A	BO
	CMF60D26R		9	50	75	400	254	170	198	221	15.60	0	A	BO
	CMF60D26L		9	50	75	400	254	170	198	221	15.60	1	A	BO
	CMF80D26R		11	65	80	440	254	170	198	221	16.90	0	A	BO
	CMF80D26L		11	65	80	440	254	170	198	221	16.90	1	A	BO
D31	CMF85D31R	N70	10	70	80	460	304	171	200	220	18.10	0	A	BO
	CMF85D31L		10	70	80	460	304	171	200	220	18.10	1	A	BO
	CMF90D31R		12	75	85	490	304	171	200	220	19.30	0	A	BO
	CMF90D31L		12	75	85	490	304	171	200	220	19.30	1	A	BO
	CMF95D31R		13	80	95	550	304	171	200	220	19.90	0	A	BO
	CMF95D31L		13	80	95	550	304	171	200	220	19.90	1	A	BO
	CMF100D31R		15	90	100	560	304	171	200	220	20.80	0	A	BO
	CMF100D31L		15	90	100	560	304	171	200	220	20.80	1	A	BO

TH total height with terminal

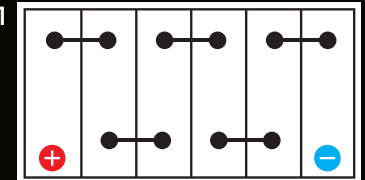
• Terminal : "A" is "Standard" & "B" is "Small" terminal.

Note : Specifications are subject to change with or without notice.

L Polarity 0



R Polarity 1





PLATINUM SERIES



MAINTENANCE FREE CALCIUM⁺ AUTOMOTIVE BATTERIES

In today's fast-paced world, reliable and maintenance-free power sources are essential for ensuring smooth operations across various sectors. Lead-acid maintenance-free batteries, designed according to the Japanese Industrial Standards (JIS), stand out as a dependable solution for both automotive and industrial applications. These batteries combine advanced technology with robust construction, providing users with high performance and longevity without the need for regular maintenance.

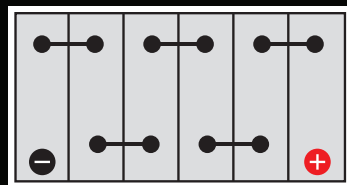
CMF CALCIUM PLUS, AUTOMOTIVE HEAVY DUTY BATTERIES (JIS STANDARD)

JIS Group	Battery Type	Battery Box Size	Plates per Cell	Capacity @ 20HR (AH)	RCT Min	CCA-18°C Amp	Dimension (mm)				Weight Wet (Kg)	Layout	Terminal	Hold Down
							L	W	H	TH				
6X15	CMF6X15	6X15	15	95	100	600	365	170	202	222	24.50	1	A	BO
E41	CMF115E41R	N100	17	100	160	650	398	168	208	228	26.20	1	A	BO
	CMF115E41L		17	100	160	650	398	168	208	228	26.20	0	A	BO
F51	CMF130F51R	N120	19	115	190	710	504	182	208	234	33.20	4	A	BO
	CMF130F51L		19	115	190	710	504	182	208	234	33.20	3	A	BO
	CMF140F51R		21	120	205	750	504	182	208	234	34.10	4	A	BO
	CMF140F51L		21	120	205	750	504	182	208	234	34.10	3	A	BO
G51	CMF145G51R	N150	21	130	210	800	504	218	210	235	38.80	4	A	BO
	CMF150G51R		23	135	220	820	504	218	210	235	39.40	4	A	BO
	CMF160G51R		25	145	230	850	504	218	210	235	41.60	4	A	BO
	CMF170G51R		27	155	260	900	504	218	210	235	42.70	4	A	BO
H52	CMF190H52R	N200	29	195	350	900	509	276	238	260	51.70	4	A	BO
	CMF210H52R		31	185	400	950	509	276	238	260	53.10	4	A	BO
	CMF245H52R		33	200	420	1000	509	276	238	260	54.20	4	A	BO

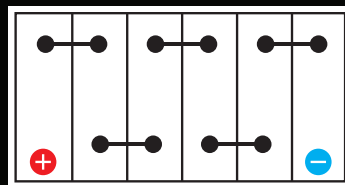
TH total height with terminal

* Terminal : "A" is "Standard" terminal.

Note : Specifications are subject to change with or without notice.



L Polarity 0



R Polarity 1

Charge Indicators

Each MF battery is equipped with indicator which shows charging conditions.



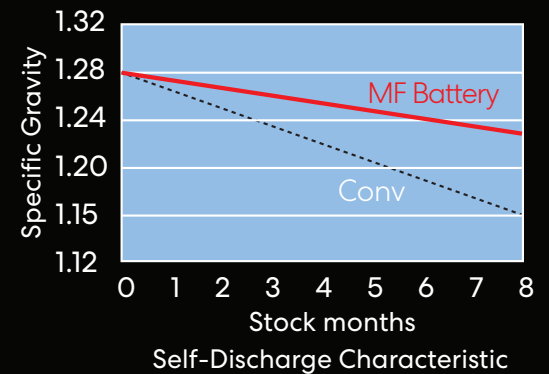
Good Condition



Needs Charging



Replace Battery





PLATINUM+ SERIES



MAINTENANCE FREE CALCIUM+ AUTOMOTIVE DIN STANDARD BATTERIES

Our maintenance free batteries, designed in accordance with the Deutsches Institut für Normung (DIN) German standards, offer exceptional reliability and efficiency for a wide range of applications. These batteries are renowned for their robust construction, high performance, and the convenience of being maintenance-free, making them an ideal choice for automotive and industrial use.

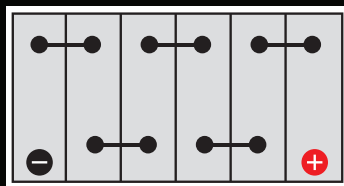
CMF CALCIUM PLUS, AUTOMOTIVE BATTERIES (DIN STANDARD)

JIS Group	Battery Type	Battery Box Size	Plates per Cell	Capacity @ 20HR (AH)	RCT Min	CCA-18°C Amp	Dimension (mm)				Weight Wet (Kg)	Layout	Terminal	Hold Down
							L	W	H	TH				
L 1	CMF54459	DIN44	9	44	65	310	210	177	190	190	13.10	0	A	B13
	CMF54464		9	44	65	310	210	177	190	190	13.10	1	A	B13
L 2	CMF55559	DIN55	11	55	85	390	245	177	190	190	16.30	0	A	B13
	CMF55565		11	55	85	390	245	177	190	190	16.30	1	A	B13
L 3	CMF56018	DIN66	11	60	89	480	277	177	190	190	17.50	0	A	B13
	CMF56638		13	66	110	480	277	177	190	190	19.00	0	A	B13
	CMF56640		13	66	110	480	277	177	190	190	19.00	1	A	B13
L 5	CMF57220	DIN88	15	72	120	520	350	177	190	190	21.50	0	A	B13
	CMF58827		17	88	130	580	350	177	190	190	23.50	0	A	B13
	CMF58828		17	88	130	580	350	177	190	190	23.50	1	A	B13

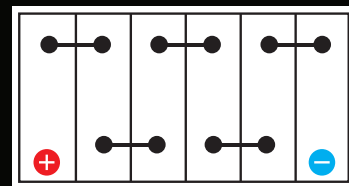
TH total height with terminal

* Terminal : "A" is "Standard" terminal. v

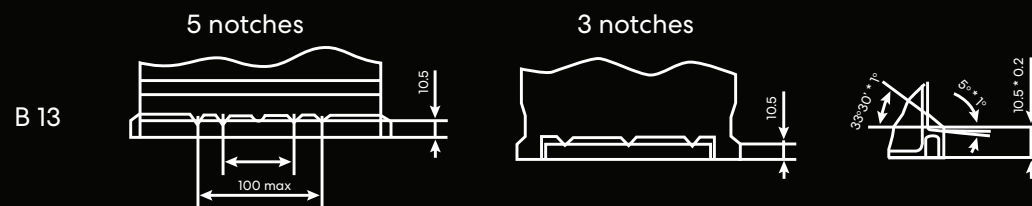
Note : Specifications are subject to change with or without notice.



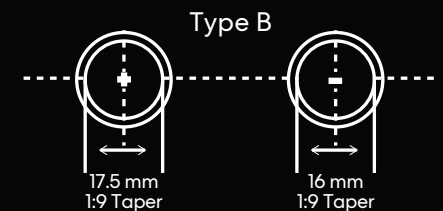
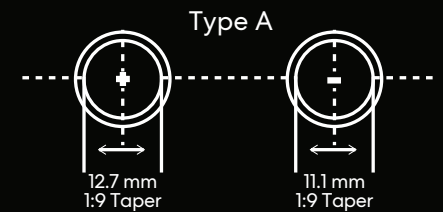
L Polarity 0



R Polarity 1



Terminal Types



Scan for Data Sheet



BLUE SERIES



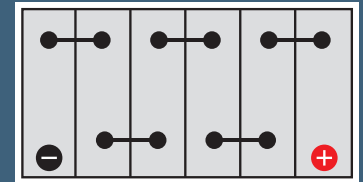
LEAD ACID DRY CHARGED AUTOMOTIVE BATTERIES

Osaka Batteries is the leading battery brand in Pakistan with three decades of experience in manufacturing conventional lead acid dry charge batteries (shallow cycle & deep cycle batteries) as per Japanese industrial standards.

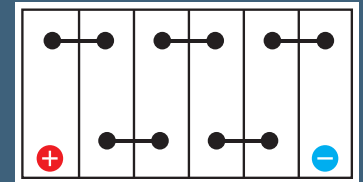
DRY CHARGED LEAD ACID BATTERIES (JIS STANDARD)

JIS Group	JIS Battery Type	Battery Type	Battery Box Size	Plates per Cell	Capacity @ 20HR	CCA-18°C Amp	RCT Min	Dimension (mm)				Weight (Kg)	Layout	Terminal
								L	W	H	TH			
B20	28B20R	12GEN-MCR35	NS40	5	20	...	...	195	127	200	223	5.00	1	A
	28B20L	12GEN-MCR35		5	20	...	...	195	127	200	223	5.00	0	A
	28B20R	12GEN-MCR45		7	25	...	...	195	127	200	223	6.10	1	A
	28B20L	12GEN-MCR45		7	25	...	...	195	127	200	223	6.10	0	A
	38B20R	S60+		9	34	243	47	195	127	200	223	7.70	1	A
	38B20L	S60L+		9	34	243	47	195	127	200	223	7.70	0	A
	42B20R	CR65+		11	40	274	52	195	127	200	223	8.60	1	A
	42B20L	CR65L+		11	40	274	52	195	127	200	223	8.60	0	A
B24	42B24R	S70+	N40	11	40	238	57	232	132	202	223	8.66	1	B
	42B24L	S70L+		11	40	238	57	232	132	202	223	8.66	0	B
	54B24R	S75+		12	50	325	71	232	132	202	223	9.40	1	A/B
	54B24L	S75L+		12	50	325	71	232	132	202	223	9.40	0	A/B
D26	54D26R	S80+	N50	9	50	278	81	257	168	202	229	9.80	1	B
	54D26L	S80L+		9	50	278	81	257	168	202	229	9.80	0	B
	65D26R	S90+		11	60	356	95	257	168	202	229	11.50	1	B
	65D26L	S90L+		11	60	356	95	257	168	202	229	11.50	0	B
D31	65D31R	S110A+	N70	11	72	356	101	302	170	202	227	12.80	0	B
	65D31L	S110AL+		11	72	356	101	302	170	203	227	12.80	0	B
	67D31R	S115+		13	80	413	113	302	170	203	227	13.50	1	B
	67D31L	S115L+		13	80	413	113	302	170	203	227	13.50	0	B
	80D31R	V120Z+		15	85	415	125	302	170	203	228	15.40	1	B
	80D31L	V120ZL+		15	85	415	125	302	170	203	228	15.40	0	B
6x15		T-130S	NS100	15	100	512	180	367	170	202	223	16.25	0	B
		P-140S		17	105	512	182	367	170	202	223	18.10	0	B
E41	105E41	P-145S	N100	17	110	512	182	405	172	208	238	18.20	1	B
	115E41	P-155S		19	115	531	198	405	172	208	238	20.10	1	B
F51	130F51	P-200S	N120	21	130	638	228	500	178	210	238	24.60	4	B
G51	145G51	P-210S	N150	23	145	680	260	502	218	210	241	25.30	4	B
	160G51	P-240S		23	155	710	285	502	218	210	241	27.25	4	B
	165G51	P-260S		27	180	750	325	502	218	210	241	29.60	4	B
H52	200H52	P-280S	N200	31	200	874	370	515	274	212	241	33.90	4	B
	210H52	P-300Z		33	215	920	400	515	274	212	241	35.60	4	B
		6TN	6TN	25	100	462	170	280	265	200	221	21.60	4	B

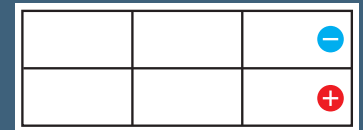
*TH total height with terminal



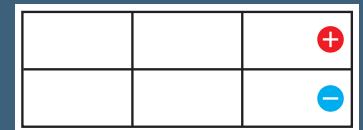
Layout 0



Layout 1



Layout 3



Layout 4

SILVER SERIES

Scan for Data Sheet



MOTORCYCLE BATTERIES

Osaka motorcycle batteries are available in Dry Charge & VRLA AGM/GEL version. Our batteries are known for quality and long lasting performance. Our range of products in VRLA & Dry Charged versions is from 3 AH to 9 AH. These batteries are used in motorcycles as well as in utility equipment like lawn mowers, computers etc.

MOTORCYCLE BATTERIES

VRLA (AGM) RANGE OF BATTERIES

Nomenclature	Battery Types	Plates per Cell	Capacity 10 Hr	Dimension (mm)			Weight Kg (Wet)
				L	W	H	
YBX3L-BS	12V 3AH	3	3	80	78	106	1.20
YBX5L-BS	12 V 5AH	5	5	120	60	128	1.90
YBX7L-BS	12V 7AH	7	7	148	60	130	2.70
YBX9R-BS	12 V 9AH	7	9	135	75	140	3.50

Specialized Small VRLA Batteries

NP SERIES VRLA AGM/GEL DEEP CYCLE BATTERY

Features

- Suitable for deep cycle purpose.
- High impact strength.
- No top up required.
- Provides long life.
- In opaque ABS fire retardant container.
- Completely sealed maintenance free battery with AGM technology.

VRLA NP SERIES BATTERIES

Type	No. of plates	Capacity @ 20 Hr	Dimensions (mm)			Weight Kg (Wet)	Boost Charging Current
			L	W	H		
NP5-12	05	5.0	90	70	101.5	1.65	0.5 Amp
NP7-12	07	7.2	152	65	100	2.50	7.2 Amp
NP12-12	13	12.0	151	98	93	3.50	12.0 Amp

Type	No. of plates	Capacity @ 20 Hr	Volts	Dimensions (mm)			Weight (Grm)
				L	W	H	
NP4-4	5	4	4v	47.2	47.7	102.2	531.00
NP4.5-6	5	5	6v	70.0	47.2	102.4	883.00

DRY CHARGE BATTERIES

Nomenclature	Battery Types	Plates per Cell	Capacity 10 Hr	Dimension (mm)			Weight Kg (Dry)
				L	W	H	
12N3-3C	12V 3AH	3	3	71/80	70.5	104.3	0.80
12N5-3B	12V 5AH	7	5	118/128	59.0	132.6	1.65
12N6.5-3B	12V 6.5AH	5	6.5	140/150	67	100.6	1.40
12N7B-3B	12V 7 AH	9	7	148/157	58.0	130.1	2.10
12N9-3B	12V 9 AH	7	9	136/144	75.0	141.6	2.57

6-GFM VRLA AGM E-BIKE BATTERY

Features

- Suitable for E-bikes.
- High impact strength.
- In opaque ABS fire retardant container.
- Provides long life.
- Completely sealed maintenance free battery with AGM technology.

VRLA 6-GFM SERIES SMALL BATTERIES

Type	No. of plates	Capacity @ 20 Hr	Dimensions (mm)			Weight Kg (Wet)	Boost Charging Current
			L	W	H		
6-GFM-18	09	18	181	76	166	5.4	3.6 Amp
6-GFM-20	09	20	180	76	169	7.3	4.0 Amp
6-GFM-22	11	22	181	76	164	6.0	4.4 Amp
6-GFM-28	15	28	166	176	126	9.5	5.6 Amp
6-GFM-45	07	45	196	165	171	13.5	9.0 Amp

Scan for Data Sheet



GREEN SERIES



MOTIVE POWER / ELECTRICAL VEHICLE BATTERIES

Osaka Battery is also pioneer in manufacturing advanced deep cycle batteries in Pakistan. Our customers rely on Osaka deep cycle batteries to deliver superior output and services.

MOTIVE POWER BATTERIES

Nomenclature	Volts	Capacity @ 20 HRS	Over all Dimensions (mm)			Weight Wet (Kg)
			L	W	TH	
8-GCF	8	160 AH	258	181	282	31.5
6-GCT	6	210 AH	260	182	282	30.5
6-GCF	6	225 AH	260	182	282	31.0

Features:

- Thick antimonial lead alloy grids for long life & increase cycle life.
- Positive & negative terminals are covered with plastic caps.
- Heavy duty PE separators for long life.
- Containers/covers made of PP material and are heat sealed.
- High paste density for reduce shedding during cycling and extending battery Life.
- Designed for increased cycle life with low maintenance.
- Special expander is used for long backup time of the battery.
- Available in 8 volt & 6 volt version.
- Available in Tubular & flat positive plate.

Applications:

- For Golf Carts
- Electric Fork Lifters
- Electric Vehicles
- Electric Floor Machineries

Scan for Data Sheet



TRACTION SERIES



TRACTION CELLS / BATTERIES

Traction batteries are used to propel battery-powered electric vehicles such as forklifts, electric golf carts, ride-on floor scrubbers, mining locomotives and a whole host of other vehicles.

Our traction batteries are some of the highest quality batteries to be found worldwide. The technology, designed, employs our original glass fiber tubes and is a unique differentiator, while still meeting our customers' more basic requirements of a long service life, stable quality and of course, easy maintenance.

RANGE & SPECIFICATIONS

Model	Nominal Voltage	Rated Capacity (AH) 5 Hr	Overall Dimensions				Approx. Weight (±5% kg)
			±2(mm)	with Acid			
			L	W	H	TH	
50AH /Plate							
8PZB400	2V	400	141	158	384	416	23.0
70AH /Plate							
3PZB210	2V	210	61	158	485	518	12.4
100AH /Plate							
5PZB500	2V	500	93	158	659	695	27.5

Features:

- Lead acid open type batteries with liquid electrolyte base.
- Robust tubular plate vented technology.
- High density tubular positive plate design proves more power.
- The cover and container are made from high impact, temperature resistant poly propylene and heat seal welded to prevent electrolyte leakage.
- Available in both JIS & DIN, JIS is widely accepted by global forklift manufacturers for its quality. DIN is popular for tubular type with a long cycle life.

Applications:

- Electric Fork Lifters
- Electric Cleaning Machines
- Electric Tractor
- Lifting Platforms

GOLD SERIES



TUBULAR PLATE DEEP CYCLE BATTERIES

Flooded Tubular Deep Cycle Lead Acid Batteries are designed to deliver consistent and reliable power over extended periods, making them ideal for applications requiring long-duration energy storage. Built with robust tubular plates and advanced lead-acid technology, these batteries offer deep discharge capabilities, excellent cyclic performance, and a longer lifespan compared to conventional batteries. They are particularly well-suited for use in renewable energy systems, backup power solutions, and industrial applications where durability and reliability are paramount.

Deep Cycle Tubular Series

Range & Specifications

Battery Type		Battery Box Size	No. of plate/ cell	Rated Capacity @ 25 °C		Dimensions (mm)				Wet Weight (Kg) ±1
				20 HR	10 HR	L	W	H	Ht	
Small	ST-600	N50	3	35	30	257	170	204	304	14
Tubular	ST-700	N70	5	75	55	300	170	207	242	20
Jumbo	JT-1000	6X15	5	83	70	345	175	265	295	31
Tubular	JT-1200		7	125	115	345	175	265	295	38
Jumbo Tubular	JT-1100	N150 (Tubular)	5	90	80	506	220	220	296	40
	JT-1300		7	110	100	506	220	220	296	46
	JT-1400		7	135	120	506	220	220	296	48
	JT-1600		9	150	140	506	220	220	296	49
Low Height Tubular	LT-1500	Low Height	5	140	130	500	190	352	360	48
	LT-1700		7	170	150	500	190	352	360	54
	LT-2000		9	230	200	500	190	352	360	61
Tall Tubular	TT-1800	Tall Tubular	5	165	150	500	190	373	410	56
	TT-2000		6	200	170	500	190	373	410	61
	TT-2500		7	230	190	500	190	373	410	64
	TT-3500		9	260	240	500	190	373	410	72

Features

- Tubular Positive Plates & Thick Negative Plates are used for giving longer life to the Batteries.
- Better Electrical Performance due to low Electrical Resistance PE Separators and prevents oxidation.
- Float Indicators are fitted to determine the level of Electrolyte.
- Designed to have life of over 1250 Cycles at 80 % DOD.

Applications

- UPS/Inverters
- Telecommunication System
- Wind and Solar Energy
- Security & Surveillance Systems
- Electronic PABX System
- Office Automation Equipment
- Process Instrumental and control
- Emergency Lighting

Standards

Test Standards	Quality Standards
IEC 60896-11	ISO 9001
	ISO 14001
	ISO 45001

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6-GFM SERIES



VALVE REGULATED LEAD ACID VRLA BATTERIES

6-GFM Top Access VRLA Deep Cycle AGM Batteries comprise of high-capacity with new model that is developed with the latest modern technology. This product has many advantages, such as, safe and reliable seal, high specific energy, low resistance, low rate of self-discharge, good charge acceptance, long cyclic life, and high seal reaction efficiency.

NP Series & 6-GFM Series

Range & Specifications

Battery Type	Nominal Voltage (V)	Rated Capacity	Terminal Type	Dimensions (mm) Tolerance ± 2			Approx. Weight (Kg) ± 1
				L	W	H	
NP-4-4	4	4AH(C20)	F1	47	48	102	0.53
NP-4.5-6	6	5AH(C20)	F1	70	47	102	0.84
NP-5-12	12	5AH(C20)	F2	90	70	102	1.65
NP-7-12	12	7AH(C20)	F2	152	65	100	2.50
NP-12-12	12	12AH(C20)	F2	151	98	93	3.60
6-GFM-18	12	18AH(C20)	M5	181	76	167	5.70
6-GFM-22	12	22AH(C20)	M5	181	76	167	6.10
6-GFM-28	12	28AH(C20)	M5	167	176	126	9.80
6-GFM-40	12	40AH(C20)	F4	197	165	170	13.00
6-GFM-45	12	45AH(C20)	F4	197	165	170	14.00
6-GFM-200	12	200AH(C10)	M8	522	259	236	71.00

Main Technical Specifications

- No Leakage & No Acid Smog Spray during the operation
- No need to add Acid or Water
- Number of Cycles vs Depth of Discharge (DOD) @ 25°C:
20% DOD 1600, 50% DOD 1000, 80% DOD 700
- Self-Discharge is under 3% (at 25°C, 30 Days)
- Operating Temperature Range: -15°C~+55°C
- Recommended Operating Temperature: 20°C~25°C
- Recommended Float Voltage (25°C): 13.5V
- Recommended Cyclic Voltage (25°C) :14.1V
- Maximum Charging Current Limit: 0.2C₁₀
- Recommended Charging Current 0.15C₁₀
- Recombination Efficiency: >96%

Features:

- AGM Technology
- Top Access
- Rated Voltage: 12V
- Capacity Range: 4AH - 200AH
- 10 Years Design Life (25°C)
- Flame Retardant Container & Cover with ABS Material
- High Reliability & Long Service Life

Applications:

- UPS/Inverter
- Telecom & IT Power Backup
- Power Plants / Transmission Substation
- Security & Surveillance Systems
- Microwave Relay Station
- Auto Control Equipment
- Security System
- Electro-Medical Equipment
- Remote Sensing Devices
- Emergency Light System
- Power Supply System
- Military Facilities
- Railway Signalling
- Solar Energy Backups

Standards

Test Standards	Quality Standards
IEC 60896-21	ISO 9001
IEC 60896-22	ISO 14001
IEC 61427-1	ISO 45001

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6-FMX SERIES



VALVE REGULATED LEAD ACID VRLA BATTERIES

6-FMX Front Access VRLA Deep Cycle AGM Batteries deliver superior performance while occupying less space than conventional standby power batteries. This series is of compact design, suitable for 19 inch, 23 inch cabinet/rack, provides users with the benefit of increased energy density.



6-FMX Series (12V)

Range & Specifications

Battery Type	Nominal Voltage (V)	Rated Capacity (C10) AH	Terminal Type	Dimensions (mm) Tolerance ± 2			Approx. Weight (Kg) ± 1
				L	W	H	
6-FMX-75B	12	75	M6	395	110	286	26
6-FMX-100B	12	100	M6	395	110	286	32
6-FMX-120B	12	120	M6	550	110	310	42
6-FMX-150B	12	150	M6	550	110	310	49
6-FMX-150C	12	155	M6	559	125	315	52
6-FMX-180B	12	180	M6	559	125	315	57

Main Technical Specifications

- No Leakage & No Acid Smog Spray during the operation
- No Need to Add Acid or Water
- Number of Cycles vs Depth of Discharge (DOD)
@ 25°C: 20% DOD 1600, 50% DOD 1000, 80% DOD 700
- Self-Discharge is under 3% (at 25°C, 30 Days)
- Recommended Operating Temperature: 20°C~25°C
- Operating Temperature Range: -15°C~+55°C,
- Recommended Float Voltage (25°C): 2.23V
- Recommended Cyclic Voltage (25°C) :2.30V
- Maximum Charging Current Limit: 0.2C₁₀
- Recommended Charging Current 0.15C₁₀
- Recombination Efficiency: >96%

Features:

- AGM Technology
- Rated Voltage: 12V
- Capacity Range (C₁₀): 75AH - 180AH
- 10 Years Design Life (25°C)
- Front Access Terminals for Easy Installation & Maintenance
- Flame Retardant Container & Cover with ABS Material
- High Reliability & Long Service Life

Applications:

- Uninterruptible Power Supply (UPS)
- Telecom & IT Power Backup
- Security & Surveillance Systems
- Power Plants
- Transmission Substation
- Lawn & Garden Tools
- Microwave Relay Station
- Remote Sensing Device
- Emergency Light System
- Power Supply System
- Military Facilities
- Railway Signalling
- Solar Energy Backups
- Auto Control Equipment

Standards

Test Standards	Quality Standards
IEC 60896-21	ISO 9001
IEC 60896-22	ISO 14001
IEC 61427-1	ISO 45001

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6-GFMJ SERIES



VALVE REGULATED LEAD ACID VRLA BATTERIES

The 6-GFMJ Series VRLA Deep Cycle Batteries adopt GEL electrolyte and are designed with top terminal structure. This technology provides better cyclic performance. This product has many advantages, such as, safe and reliable seal, high specific energy, low resistance and low rate of self-discharge, good charge acceptance, long cyclic life, and high seal reaction efficiency.

NPJ Series & 6-GFMJ Series

Range & Specifications

Battery Type	Nominal Voltage (V)	Rated Capacity	Terminal Type	Dimensions (mm) Tolerance ± 2			Approx. Weight (Kg) ± 1
				L	W	H	
NPJ-4-4	4	4AH(C20)	F1	47	48	102	0.53
NPJ-4.5-6	6	5AH(C20)	F1	70	47	102	0.84
NPJ-5-12	12	5AH(C20)	F2	90	70	102	1.65
NPJ-7-12	12	7AH(C20)	F2	152	65	100	2.50
NPJ-12-12	12	12AH(C20)	F2	151	98	93	3.60
6-GFMJ-18	12	18AH(C20)	M5	181	76	167	5.70
6-GFMJ-22	12	22AH(C20)	M5	181	76	167	6.10
6-GFMJ-28	12	28AH(C20)	M5	167	176	126	9.80
6-GFMJ-40	12	40AH(C20)	F4	197	165	170	13.00
6-GFMJ-45	12	45AH(C20)	F4	197	165	170	14.00
6-GFMJ-200	12	200AH(C10)	M8	522	259	236	71.00

Main Technical Specifications

- No Leakage & No Acid Smog Spray during the operation
- No need to add Acid or Water
- Number of Cycles vs Depth of Discharge (DOD) @ 25°C:
20% DOD 1600, 50% DOD 1000, 80% DOD 700
- Self-Discharge is under 3% (at 25°C, 30 Days)
- Operating Temperature Range: -15°C~+55°C
- Recommended Operating Temperature: 20°C~25°C
- Recommended Float Voltage (25°C): 13.5V
- Recommended Cyclic Voltage (25°C) :14.1V
- Maximum Charging Current Limit: 0.2C₁₀
- Recommended Charging Current 0.15C₁₀
- Recombination Efficiency: >96%

Features:

- GEL Technology
- Top Access
- Rated Voltage: 12V
- Capacity Range: 4AH - 200AH
- 10 Years Design Life (25°C)
- Flame Retardant Container & Cover with ABS Material
- High Reliability & Long Service Life

Applications:

- UPS/Inverter
- Telecom & IT Power Backup
- Power Plants / Transmission Substation
- Security & Surveillance Systems
- Microwave Relay Station
- Auto Control Equipment
- Security System
- Electro-Medical Equipment
- Remote Sensing Devices
- Emergency Light System
- Power Supply System
- Military Facilities
- Railway Signalling
- Solar Energy Backups

Standards

Test Standards	Quality Standards
IEC 60896-21	ISO 9001
IEC 60896-22	ISO 14001
IEC 61427-1	ISO 45001

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6-FMXJ SERIES



VALVE REGULATED LEAD ACID VRLA BATTERIES

6-FMXJ Front Access VRLA Deep Cycle Gel Batteries have been developed for long term operation in harsh environments. These batteries can be installed in any position without affecting their performance or reliability. Centralised venting system adds to the suitability and flexibility of this superior range. It has good cyclic life and high power discharge performance with good charge acceptability for the service with high requirements.

6-FMXJ Series (12V)

Range & Specifications

Battery Type	Nominal Voltage (V)	Rated Capacity (C10) AH	Terminal Type	Dimensions (mm) Tolerance ± 2			Approx. Weight (Kg) ± 1
				L	W	H	
6-FMXJ-75B	12	75	M6	395	110	286	26
6-FMXJ-100B	12	100	M6	395	110	286	32
6-FMXJ-120B	12	120	M6	550	110	310	42
6-FMXJ-150B	12	150	M6	550	110	310	49
6-FMXJ-150C	12	155	M6	559	125	315	52
6-FMXJ-180B	12	180	M6	559	125	315	57

Main Technical Specifications

- No Leakage & No Acid Smog Spray during the operation
- No Need to Add Acid or Water
- Number of Cycles vs Depth of Discharge (DOD)
@ 25°C: 20% DOD 1600, 50% DOD 1000, 80% DOD 700
- Self-Discharge is under 3% (at 25°C, 30 Days)
- Recommended Operating Temperature: 20°C~25°C
- Operating Temperature Range: -15°C~+55°C,
- Recommended Float Voltage (25°C): 2.23V
- Recommended Cyclic Voltage (25°C) :2.30V
- Maximum Charging Current Limit: 0.2C₁₀
- Recommended Charging Current 0.15C₁₀
- Recombination Efficiency: >96%

Features:

- GEL Technology
- Rated Voltage: 12V
- Capacity Range (C₁₀): 75AH - 180AH
- 10 Years Design Life (25°C)
- Front Access Terminals for Easy Installation & Maintenance
- Flame Retardant Container & Cover with ABS Material
- High Reliability & Long Service Life

Applications:

- Uninterruptible Power Supply (UPS)
- Telecom & IT Power Backup
- Security & Surveillance Systems
- Power Plants
- ATM Machines
- Transmission Substation
- Lawn & Garden Tools
- Microwave Relay Station
- Remote Sensing Device
- Emergency Light System
- Power Supply System
- Railway Signalling
- Solar Energy Backups
- Auto Control Equipment

Standards

Test Standards	Quality Standards
IEC 60896-21	ISO 9001
IEC 60896-22	ISO 14001
IEC 61427-1	ISO 45001

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OPzS SERIES



OPzS CELLS / BATTERIES

Battery complies with IEC 60896-11 standards and DIN 40736-1, the product capacity range is from 150 AH to 3000 AH.

The OPzS Series is designed for regular and long deep discharge applications. It is ideal for renewable energy applications like Solar & Wind along with off-grid applications. Very high expected service life due to optimized low-antimony alloy. Excellent discharge cycle stability and excellent medium to long rate discharge due to tubular plate design. This series provides high capacity application in area with unstable grid and unreliable power supply. Their designed life for standby usage is 18-20 years.

OPzS Series (2V)

Range & Specifications:

Battery Type	Nominal Voltage (V)	Rated Capacity (C10) 1.80V/Cell	Terminal Type	Dimensions (mm) Tolerance + 2				Approx. Weight (Kg) +1
				L	W	H	TH	
OPzS 150	2	150	M8	103	206	356	410	15
OPzS 200	2	200	M8	103	206	356	410	17
OPzS 250	2	250	M8	145	206	356	410	22
OPzS 300	2	300	M8	145	206	356	410	24
OPzS 600	2	600	M8	145	206	646	702	47
OPzS 800	2	800	M8	191	210	646	702	65
OPzS 1000	2	1000	M8	233	210	646	702	82
OPzS 1200	2	1200	M8	275	210	646	702	92
OPzS 1600	2	1600	M8	397	212	773	828	143
OPzS 3000	2	3000	M8	576	212	775	833	223

Features:

- Rated Voltage: 2V
- Tubular Positive Plates with special Low Antimony Lead alloy
- Reduced Water Loss
- Excellent Cycling Even in Partial Discharge State
- Additional Electrolyte to Reduce Topping Up
- Ceramic Plug Filter
- Installation in Vertical Position
- Long Service Life
- Capacity Range (C₁₀) 2V: 150AH~3000AH
- 20 Years Design Life (25°C)
- Flame Retardant Container & Cover with ABS Material
- High Reliability & Long Service Life

Applications:

- Telecommunication/IT
- Traffic Systems (Signalling & Lighting)
- Mobile Phone Station
- Drinking Water Supply System
- Security Lighting
- Power Plants
- Industrial Control
- Electro Medical Systems
- Solar & Wind Energy Storage etc.

Standards

Test Standards	Quality Standards
IEC 60896-11	ISO 9001
	ISO 14001
	ISO 45001

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OPzV SERIES



OPzV CELLS / BATTERIES

OPzV series is Valve Regulated Lead Acid battery adopting immobilised GEL and Tubular Plate technology, offering high reliability and stable performance. The OPzV series is designed and manufactured according to DIN standards, with die-casted positive grid and patented active material formula, they exceed the DIN standard values which are more suitable for cyclic use under extreme operating conditions.

OPzV Series (2V)

Range & Specifications:

Battery Type	Nominal Voltage (V)	Rated Capacity (C10) 1.80V per Cell	Terminal Type	Dimensions (mm) Tolerance ± 2				Approx. Weight (Kg) ± 1
				L	W	H	TH	
OPzV200	2	200	F28	103	206	356	391	18
OPzV300	2	300	F28	145	206	356	391	25
OPzV420	2	420	F28	145	206	471	506	35
OPzV600	2	600	F28	145	206	646	681	46
OPzV800	2	800	F28	191	210	646	681	64
OPzV1000	2	1000	F28	233	210	646	681	78
OPzV1500	2	1500	F28	275	210	795	830	115
OPzV2000	2	2000	F28	399	214	775	810	154
OPzV3000	2	3000	F28	576	212	775	810	215

Features:

- 2 Volts
- Tubular Positive Plates, Pressure Cast from Lead-Calcium Alloy
- Electrolyte Immobilized in Gel Structure
- Excellent Cycling Even in Partial Discharge State
- Standard ABS Plastic
- Installation in Vertical or Horizontal Position
- Long Service Life

Applications:

- Telecommunication/IT
- Solar & Wind Energy Storage
- Traffic Systems (Signalling & Lighting)
- Mobile Phone Station
- Drinking Water Supply System
- Security Lighting
- Power Storage Plants
- Industrial Control
- Electro Medical Systems

Standards

Test Standards	Quality Standards
IEC 60896-21	ISO 9001
IEC 60896-22	ISO 14001
IEC 61427-1	ISO 45001

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HEADQUARTER:

House # 2, Street # 63, Sector F-8/4, Islamabad - Pakistan. Tel: +92-51-111-22-00-22

UAE Office:

Office # 327, Floor 27, Al Saqr Business Tower, Sheikh Zayed Road, Dubai, U.A.E.

Tel: +971-5-8109-7958

FOR QUERIES:

acmgroup.com.pk

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