

OSAKA

BATTERIES

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)

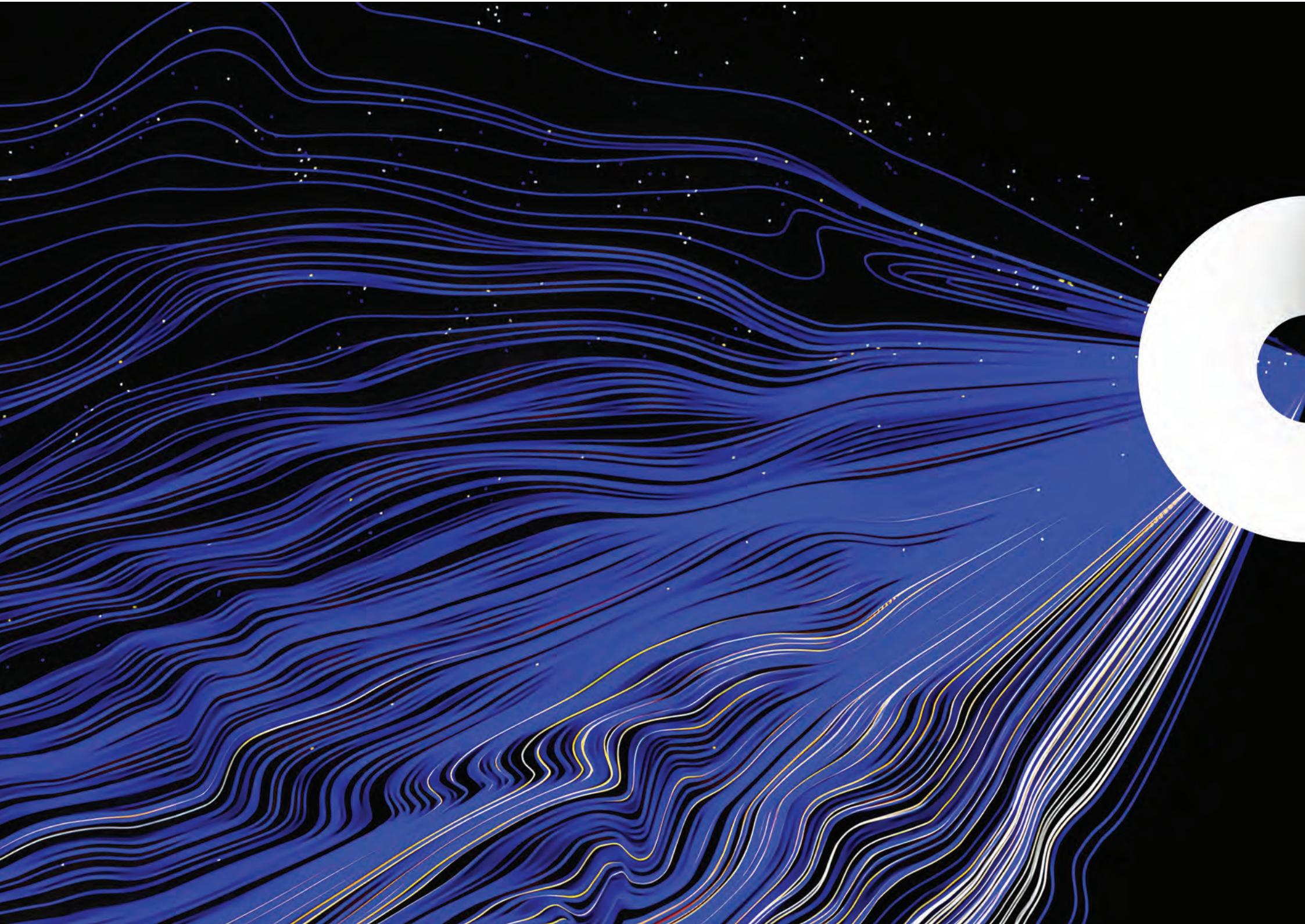
Battery Products:

| | |
|--|-----------------|
| • 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





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)

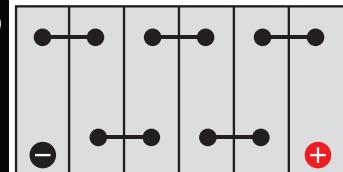
| JIS Group | Battery Type | Battery Box Size | Plates per Cell | Capacity @ 20HR (AH) | RCT Min | CCA-18°C Amp | Dimension (mm) | | | | Weight Wet (Kg) | Layout | Terminal | Hold Down |
|-----------|--------------|------------------|-----------------|----------------------|---------|--------------|----------------|-----|-----|-----|-----------------|--------|----------|-----------|
| | | | | | | | 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

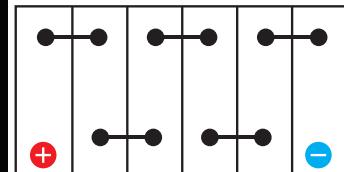
• Terminal : "A" is "Standard" & "B" is "Small" terminal.

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.

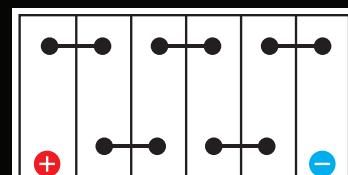
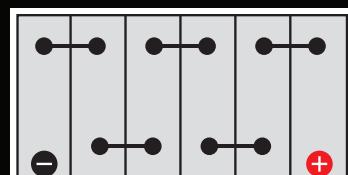
CMF CALCIUM PLUS, AUTOMOTIVE HEAVY DUTY BATTERIES (JIS STANDARD)

| 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.



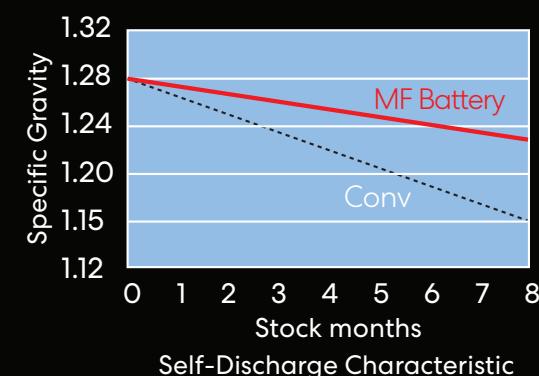
Good Condition



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.

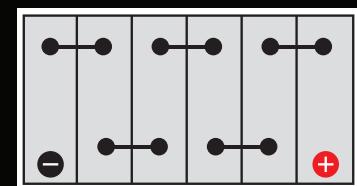
CMF CALCIUM PLUS, AUTOMOTIVE BATTERIES (DIN STANDARD)

| 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 |

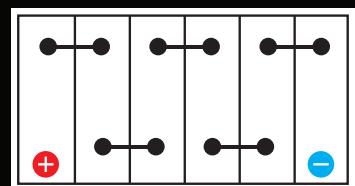
TH total height with terminal

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

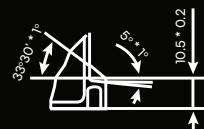
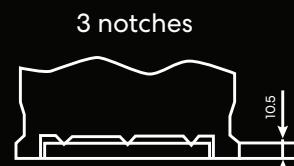
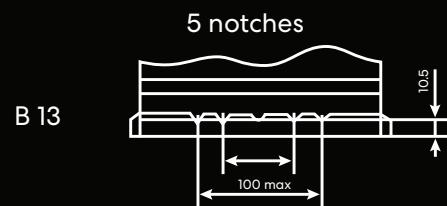
Note : Specifications are subject to change with or without notice.



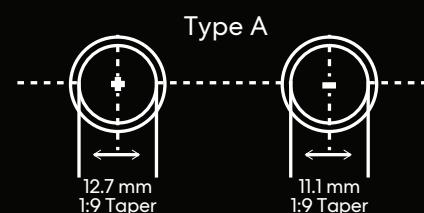
L Polarity 0



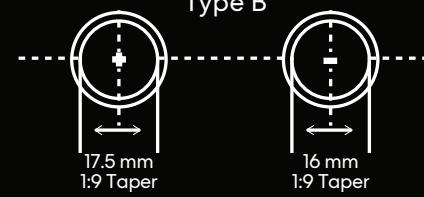
R Polarity 1



Terminal Types



Type B



Scan for Data Sheet



BLUE SERIES



LEAD ACID DRY CHARGED AUTOMOTIVE BATTERIES

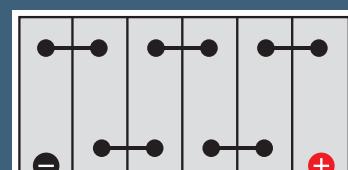
Osaka Batteries is the leading battery brand in Pakistan with three decades of experience in manufacturing conventional lead acid dry charge batteries (shallow cycle & deep cycle batteries) as per Japanese industrial standards.

DRY CHARGED LEAD ACID BATTERIES (JIS STANDARD)

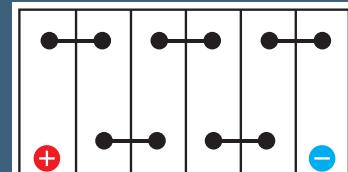


| JIS Group | JIS Battery Type | Battery Type | Battery Box Size | Plates per Cell | Capacity @ 20HR | CCA-18°C Amp | RCT Min | Dimension (mm) | | | | Weight (Kg) | Layout | Terminal |
|-----------|------------------|--------------|------------------|-----------------|-----------------|--------------|---------|----------------|-----|-----|-----|-------------|--------|----------|
| | | | | | | | | 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 |
| | 42B24R | S70+ | N40 | 11 | 40 | 238 | 57 | 232 | 132 | 202 | 223 | 8.66 | 1 | B |
| B24 | 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 |

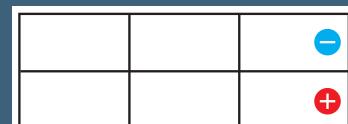
*TH total height with terminal



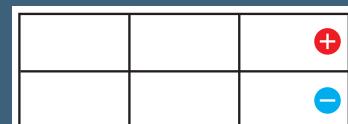
Layout 0



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 | 12V 5AH | 5 | 5 | 120 | 60 | 128 | 1.90 |
| YBX7L-BS | 12V 7AH | 7 | 7 | 148 | 60 | 130 | 2.70 |
| YBX9R-BS | 12V 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



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 ±2(mm) | | | | Approx. Weight (±5% kg) |
|---------------------|-----------------|--------------------------|---------------------------|-----|-----|-----|-------------------------|
| | | | 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 | | |
| Small Tubular | ST-600 | N50 | 3 | 35 | 30 | 257 | 170 | 204 | 304 | 14 |
| | ST-700 | | 5 | 75 | 55 | 300 | 170 | 207 | 242 | 20 |
| Jumbo Tubular | JT-1000 | 6X15 | 5 | 83 | 70 | 345 | 175 | 265 | 295 | 31 |
| | 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 |
| Tubular | 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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