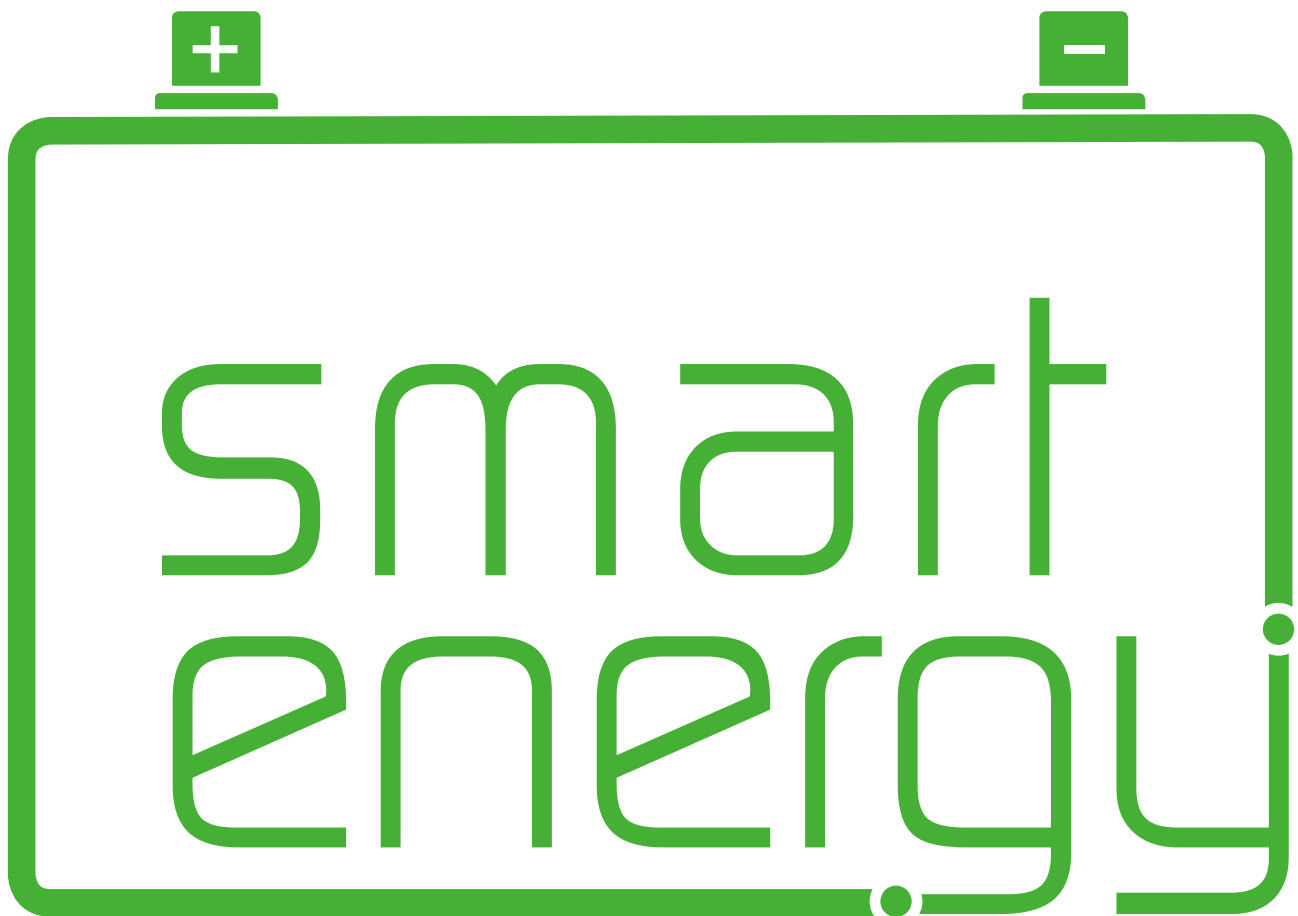


Power Creator
Hyundai Sungwoo
Automotive Korea Co., Ltd.

SOLITE[®]
BATTERY



**HYUNDAI SUNGWO
AUTOMOTIVE KOREA**

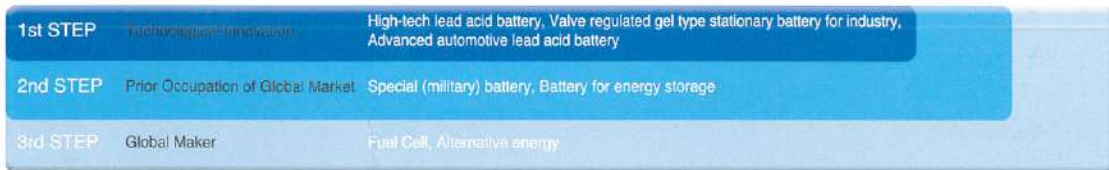
Company Profile

- **Corporate Name** : Hyundai Sungwoo Automotive Korea Co.,Ltd.
- **Core Business** : Battery (automobile, industrial, agricultural and electric vehicle) manufacture, sales(domestic, overseas)

History

- 1979 FEB Kyungwon Industry Co., Ltd, founded
- 1981 FEB Appointed as an official supplier of Hyundai Motor Company
- 1983 OCT KS approval of fixed lead battery
- 1987 FEB Awarded for reaching \$ 10 million in export
- 1988 DEC Completion of Osan Battery Plant
- 1992 AUG Central Technology Research Center founded
- 1993 NOV Cooperative development of electric automobiles (technology affiliation with OVONICS)
- 1994 NOV Achieved ISO9002 certification
- 1994 DEC Achieved UL certification of covered lead battery
- 1996 MAY Achieved KS certification of covered / fixed lead battery
- 1996 DEC Achieved ISO9001 certification by KFQ
- 1997 NOV Completion of Gyeongju Battery plant
- 2000 OCT Achieved QS9000 certification by KFQ
- 2000 OCT QS9000 certification by KFQ
- 2003 NOV Achieved ISO/TS16949 & ISO14001 certification by SGS
- 2007 JAN Expansion of Gyeongju Battery Plant and Research Center
- 2009 JAN Company name changed to Sungwoo Automotive Co., Ltd.
- 2012 APR Production Capacity expansion completed at Gyeongju Battery Plant
- 2013 MAY Company name changed to Hyundai Sungwoo Automotive Korea Co.,Ltd.

Global Roadmap

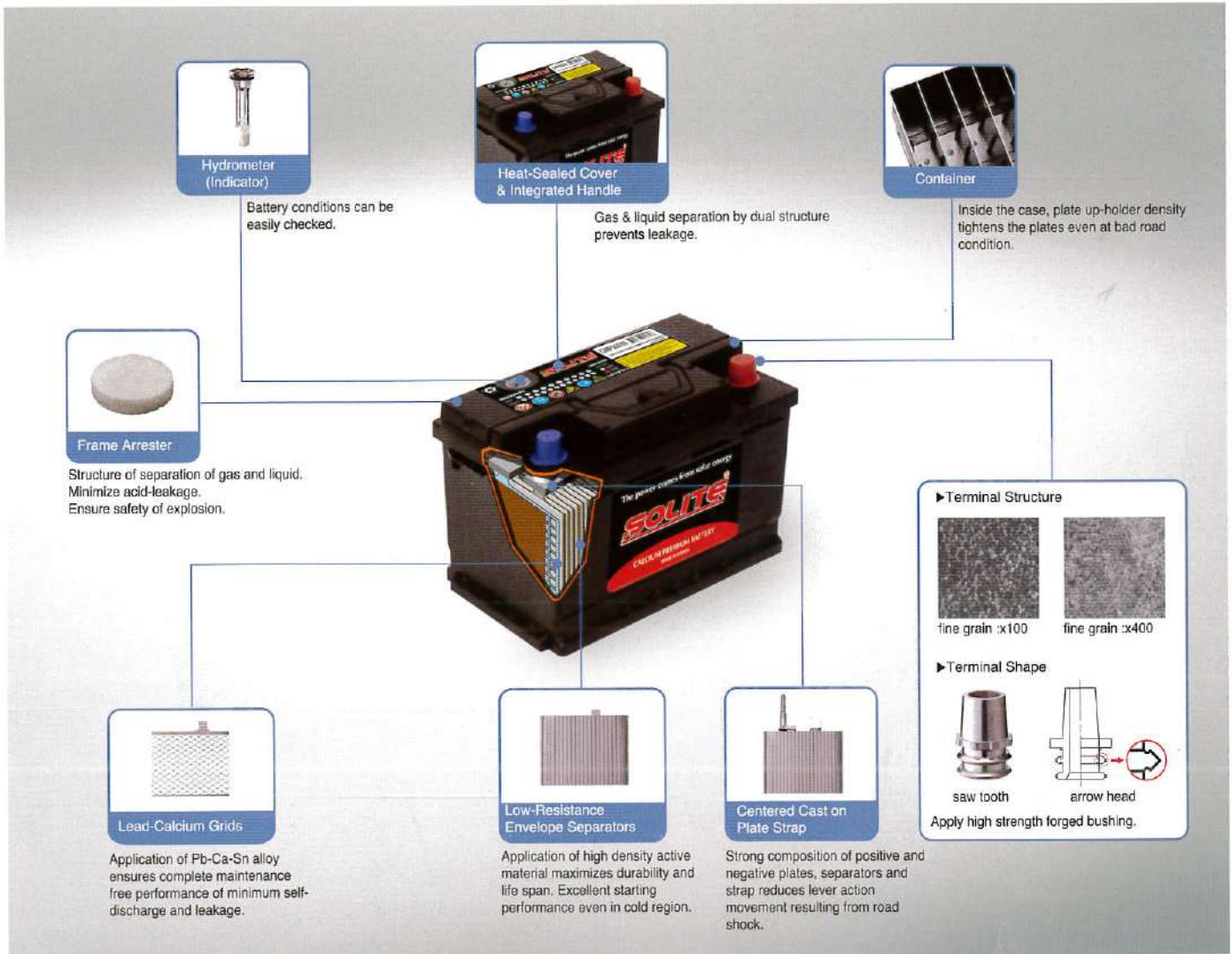


Production and Development Facilities



Battery Plant in Gyeongju

The Best Batteries with Better Performance and a Longer Lifespan



Structure of CMF Battery

SOLITE® is a highly reliable automotive battery that satisfies car lovers all over the world under any circumstances. The internal rust-free calcium metal gives you the excellent heat resistance and strong immunity against any drastic temperamental changes. It is a maintenance free product that needs no refilling of the electrolytic solutions. Now, the new era of the automotive batteries begins with Solite.

Stable Engine Operation

We succeeded in promoting the charging/discharging efficiency and the product's lifespan by employing the lower resistant super-polymer separator and the built-in casting terminal called COS. Due to the expanded calcium metal, more solutions can be stored than ever. You can find stronger performance and steadier engine operation in "Solite".

Maintenance Free

Solite has a significantly longer lifespan because the calcium-based compound metal reduces the use of electrolytic solutions and minimizes self-discharge. It maintains a stable performance without ever refilling the solutions throughout its entire lifespan.

Built-in Indicator

The built-in indicator lets you know the remainder and condition of the electrolytic solution with an easy self-inspection.

Easy-Carry Handle

The built-in handle makes it easy to carry around during tuning or changing.



FOR JAPANESE VEHICLES(JIS CMF series)

| JIS Group | JIS No. | | Capacity 20Hr(Ah) | CCA (-18℃) | RC (Min.) | Dimension(mm) | | | | Cell Lay-Out | Terminal | Hold Down |
|-----------|----------|--------------------------------|----------------------|---------------|--------------|---------------|-------|--------|----------|-----------------|----------|--------------|
| | New | Old | | | | Length | Width | Height | T.Height | | | |
| B19 | 40B19R | NS40Z | 35 | 330 | 54 | 187 | 127 | 199 | 219 | 1 | B | B0/W1 |
| | 40B19L | NS40ZL | 35 | 330 | 54 | 187 | 127 | 199 | 219 | 0 | B | B0/W1 |
| | 42B19R | | 38 | 360 | 60 | 187 | 127 | 199 | 219 | 1 | B | B0/W1 |
| | 42B19L | | 38 | 360 | 60 | 187 | 127 | 199 | 219 | 0 | B | B0/W1 |
| | 50B19R | | 40 | 370 | 63 | 187 | 127 | 199 | 219 | 1 | B | B0/W1 |
| | 50B19L | | 40 | 370 | 63 | 187 | 127 | 199 | 219 | 0 | B | B0/W1 |
| B24 | 50B24R | N40 | 40 | 370 | 65 | 236 | 128 | 200 | 220 | 1 | B | B0 |
| | 50B24L | N40L | 40 | 370 | 65 | 236 | 128 | 200 | 220 | 0 | B | B0 |
| | 50B24RS | N40S | 40 | 370 | 65 | 236 | 128 | 200 | 220 | 1 | A | B0 |
| | 50B24LS | N40LS | 40 | 370 | 65 | 236 | 128 | 200 | 220 | 0 | A | B0 |
| | 55B24R | NS60(S)/L NX110- S6(S)/L | 45 | 440 | 75 | 236 | 128 | 200 | 220 | 1 | B | B0 |
| | 55B24L | | 45 | 440 | 75 | 236 | 128 | 200 | 220 | 0 | B | B0 |
| | 55B24RS | | 45 | 440 | 75 | 236 | 128 | 200 | 220 | 1 | A | B0 |
| | 55B24LS | | 45 | 440 | 75 | 236 | 128 | 200 | 220 | 0 | A | B0 |
| | 65B24R | | 50 | 470 | 85 | 236 | 128 | 200 | 220 | 1 | B | B0 |
| | 65B24L | | 50 | 470 | 85 | 236 | 128 | 200 | 220 | 0 | B | B0 |
| | 65B24RS | | 50 | 470 | 85 | 236 | 128 | 200 | 220 | 1 | A | B0 |
| | 65B24LS | | 50 | 470 | 85 | 236 | 128 | 200 | 220 | 0 | A | B0 |
| | CMF50AR | | 50 | 450 | 85 | 206 | 172 | 184 | 204 | 1 | A | B1 |
| | CMF50AL | | 50 | 450 | 85 | 206 | 172 | 184 | 204 | 0 | A | B1 |
| | CMF60AR | | 60 | 470 | 95 | 230 | 172 | 184 | 204 | 1 | A | B1 |
| | CMF60AL | | 60 | 470 | 95 | 230 | 172 | 184 | 204 | 0 | A | B1 |
| D23 | 65D23R | | 60 | 450 | 90 | 230 | 172 | 200 | 220 | 1 | A | B0/B1 |
| | 65D23L | | 60 | 450 | 90 | 230 | 172 | 200 | 220 | 0 | A | B0/B1 |
| | 75D23R | | 65 | 550 | 110 | 230 | 172 | 200 | 220 | 1 | A | B0/B1 |
| | 75D23L | | 65 | 550 | 110 | 230 | 172 | 200 | 220 | 0 | A | B0/B1 |
| | 95D23R | | 68 | 580 | 115 | 230 | 172 | 200 | 220 | 1 | A | B0/B1 |
| | 95D23L | | 68 | 580 | 115 | 230 | 172 | 200 | 220 | 0 | A | B0/B1 |
| D26 | 48D26R | N50 | 50 | 450 | 95 | 260 | 175 | 200 | 220 | 1 | A | B0/B1 |
| | 48D26L | N50L | 50 | 450 | 95 | 260 | 175 | 200 | 220 | 0 | A | B0/B1 |
| | 55D26R | N50Z | 60 | 500 | 110 | 260 | 175 | 200 | 220 | 1 | A | B0/B1 |
| | 55D26L | N50ZL | 60 | 500 | 110 | 260 | 175 | 200 | 220 | 0 | A | B0/B1 |
| | 85D26R | NS70 | 70 | 620 | 130 | 260 | 175 | 200 | 220 | 1 | A | B0/B1 |
| | 85D26L | NS70L | 70 | 620 | 130 | 260 | 175 | 200 | 220 | 0 | A | B0/B1 |
| | 105D26R | | 78 | 650 | 140 | 260 | 175 | 200 | 220 | 1 | A | B0/B1 |
| | 105D26L | | 78 | 650 | 140 | 260 | 175 | 200 | 220 | 0 | A | B0/B1 |
| D31 | 65D31R | N70 | 70 | 600 | 130 | 301 | 172 | 200 | 220 | 1 | A | B0/B1 |
| | 65D31L | N70L | 70 | 600 | 130 | 301 | 172 | 200 | 220 | 0 | A | B0/B1 |
| | 105D31R | NX120-7 | 90 | 750 | 160 | 301 | 172 | 200 | 220 | 1 | A | B0/B1 |
| | 105D31L | NX120-7L | 90 | 750 | 160 | 301 | 172 | 200 | 220 | 0 | A | B0/B1 |
| | 125D31R | | 95 | 780 | 170 | 301 | 172 | 200 | 220 | 1 | A | B0/B1 |
| | 125D31L | | 95 | 780 | 170 | 301 | 172 | 200 | 220 | 0 | A | B0/B1 |
| | CMF100R | | 100 | 750 | 175 | 324 | 172 | 204 | 224 | 1 | A | B1 |
| | CMF100L | | 100 | 750 | 175 | 324 | 172 | 204 | 224 | 0 | A | B1 |
| E41 | CMFN100 | 115E41R | 100 | 780 | 175 | 403 | 173 | 209 | 231 | 1 | A | B0 |
| | CMFN100L | 115E41L | 100 | 780 | 175 | 403 | 173 | 209 | 231 | 0 | A | B0 |
| F51 | CMF120 | 130F51 | 120 | 850 | 230 | 503 | 182 | 208 | 230 | 4 | A | B0 |
| | CMF120L | | 120 | 850 | 230 | 503 | 182 | 208 | 230 | 3 | A | B0 |
| | CMF140 | 140F51 | 140 | 950 | 250 | 503 | 182 | 208 | 230 | 4 | A | B0 |
| | CMF140L | | 140 | 950 | 250 | 503 | 182 | 208 | 230 | 3 | A | B0 |
| G51 | CMF150 | 155G51 | 150 | 1000 | 300 | 503 | 216 | 208 | 230 | 4 | A | B0 |
| | CMF150L | | 150 | 1000 | 300 | 503 | 216 | 208 | 230 | 3 | A | B0 |
| | CMF170 | 165G51 | 170 | 1050 | 320 | 503 | 216 | 208 | 230 | 4 | A | B0 |
| | CMF170L | | 170 | 1050 | 320 | 503 | 216 | 208 | 230 | 3 | A | B0 |
| H52 | CMF200 | 190H52 | 200 | 1100 | 430 | 503 | 261 | 217 | 239 | 4 | A | B0 |
| | CMF200L | | 200 | 1100 | 430 | 503 | 261 | 217 | 239 | 3 | A | B0 |
| | CMF220 | 245H52 | 220 | 1200 | 470 | 503 | 261 | 217 | 239 | 4 | A | B0 |
| | CMF220L | | 220 | 1200 | 470 | 503 | 261 | 217 | 239 | 3 | A | B0 |

Notice : The Specifications are subject to changes with or without notice

+ - FOR EUROPEAN VEHICLES(DIN CMF series)

| DIN Group | Type No. (DIN) | Capacity | RC (Min.) | EN CCA | Dimension(mm) | | | | Cell Lay-Out | Terminal | Hold down |
|-------------------------|----------------|----------|-----------|--------|---------------|-------|--------|----------|--------------|----------|-----------|
| | | 20Hr(AH) | | | Length | Width | Height | T.Height | | | |
| LB1 | CMF53624 | 36 | 52 | 330 | 208 | 174 | 174 | 174 | 0 | A | B1 |
| | CMF53638 | 36 | 52 | 330 | 208 | 174 | 174 | 174 | 1 | A | B1 |
| | CMF53518 | 35 | 52 | 330 | 208 | 174 | 174 | 174 | 0 | A | B13 |
| | CMF53519 | 35 | 52 | 330 | 208 | 174 | 174 | 174 | 1 | A | B13 |
| | CMF54316 | 43 | 70 | 440 | 208 | 174 | 174 | 174 | 0 | A | B13 |
| | CMF54318 | 43 | 70 | 440 | 208 | 174 | 174 | 174 | 1 | A | B13 |
| L1 | CMF54459 | 44 | 80 | 400 | 208 | 174 | 189 | 189 | 0 | A | B13 |
| | CMF54464 | 44 | 80 | 400 | 208 | 174 | 189 | 189 | 1 | A | B13 |
| | CMF55066 | 50 | 83 | 430 | 208 | 174 | 189 | 189 | 0 | A | B13 |
| LB2 | CMF54519 | 45 | 80 | 440 | 242 | 174 | 174 | 174 | 0 | A | B14 |
| | CMF54520 | 45 | 80 | 440 | 242 | 174 | 174 | 174 | 1 | A | B14 |
| | CMF55040 | 50 | 85 | 460 | 242 | 174 | 174 | 174 | 0 | A | B13 |
| | CMF55041 | 50 | 85 | 460 | 242 | 174 | 174 | 174 | 1 | A | B13 |
| | CMF55457 | 54 | 94 | 500 | 242 | 174 | 174 | 174 | 0 | A | B13 |
| | CMF55458 | 54 | 94 | 500 | 242 | 174 | 174 | 174 | 1 | A | B13 |
| L2 | CMF55559 | 55 | 95 | 480 | 242 | 174 | 189 | 189 | 0 | A | B13 |
| | CMF55565 | 55 | 95 | 480 | 242 | 174 | 189 | 189 | 1 | A | B13 |
| | CMF56219 | 62 | 105 | 520 | 242 | 174 | 189 | 189 | 0 | A | B13 |
| | CMF56220 | 62 | 105 | 520 | 242 | 174 | 189 | 189 | 1 | A | B13 |
| | AGM60 | 60 | 100 | 640 | 242 | 174 | 189 | 189 | 0 | A | B13 |
| LB3 | CMF55415 | 54 | 94 | 500 | 275 | 174 | 174 | 174 | 0 | A | B13 |
| | CMF55416 | 54 | 94 | 500 | 275 | 174 | 174 | 174 | 0 | A | B13 |
| | CMF56318 | 63 | 110 | 570 | 275 | 174 | 174 | 174 | 0 | A | B13 |
| | CMF56320 | 63 | 110 | 570 | 275 | 174 | 174 | 174 | 1 | A | B13 |
| | CMF57113 | 71 | 120 | 650 | 275 | 174 | 174 | 174 | 0 | A | B13 |
| | CMF57115 | 71 | 120 | 650 | 275 | 174 | 174 | 174 | 1 | A | B13 |
| L3 | CMF56638 | 66 | 110 | 540 | 275 | 174 | 189 | 189 | 0 | A | B13 |
| | CMF56640 | 66 | 110 | 540 | 275 | 174 | 189 | 189 | 1 | A | B13 |
| | CMF57412 | 74 | 130 | 660 | 275 | 174 | 189 | 189 | 0 | A | B13 |
| | CMF57413 | 74 | 130 | 660 | 275 | 174 | 189 | 189 | 1 | A | B13 |
| | AGM70 | 70 | 120 | 760 | 275 | 174 | 189 | 189 | 0 | A | B13 |
| LB4 | CMF57539 | 75 | 140 | 660 | 314 | 174 | 174 | 174 | 0 | A | B13 |
| | CMF58014 | 80 | 155 | 700 | 314 | 174 | 174 | 174 | 0 | A | B13 |
| | CMF58016 | 80 | 155 | 700 | 314 | 174 | 174 | 174 | 1 | A | B13 |
| L4 | CMF58043 | 80 | 150 | 670 | 314 | 174 | 190 | 190 | 0 | A | B13 |
| | CMF59042 | 90 | 170 | 720 | 314 | 174 | 190 | 190 | 0 | A | B13 |
| LB5 | CMF58515 | 85 | 155 | 720 | 351 | 174 | 174 | 174 | 0 | A | B13 |
| L5 | CMF58827 | 88 | 150 | 680 | 351 | 174 | 189 | 189 | 0 | A | B13 |
| | CMF58828 | 88 | 150 | 680 | 351 | 174 | 189 | 189 | 1 | A | B13 |
| | CMF60038 | 100 | 170 | 740 | 351 | 174 | 189 | 189 | 0 | A | B13 |
| COMMERCIAL & HEAVY DUTY | CMF62034 | 120 | 230 | 850 | 503 | 182 | 193 | 214 | 3 | A | B0 |
| | CMF62038 | 120 | 230 | 850 | 503 | 182 | 193 | 214 | 4 | A | B0 |
| | CMF64020 | 140 | 250 | 900 | 503 | 182 | 193 | 214 | 3 | A | B0 |
| | CMF64021 | 140 | 250 | 900 | 503 | 182 | 193 | 214 | 4 | A | B0 |
| | CMF64317 | 143 | 300 | 950 | 503 | 216 | 193 | 214 | 3 | A | B0 |
| | CMF64318 | 143 | 300 | 950 | 503 | 216 | 193 | 214 | 4 | A | B0 |
| | CMF67018 | 170 | 320 | 970 | 503 | 216 | 193 | 214 | 3 | A | B0 |
| | CMF67019 | 170 | 320 | 970 | 503 | 216 | 193 | 214 | 4 | A | B0 |
| | CMF70018 | 200 | 430 | 1050 | 503 | 216 | 193 | 214 | 3 | A | B0 |
| | CMF70019 | 200 | 430 | 1050 | 503 | 216 | 193 | 214 | 4 | A | B0 |
| | CMF70027 | 200 | 430 | 1050 | 503 | 261 | 217 | 239 | 3 | A | B0 |
| | CMF70029 | 200 | 430 | 1050 | 503 | 261 | 217 | 239 | 4 | A | B0 |
| | CMF72027 | 220 | 470 | 1150 | 503 | 261 | 217 | 239 | 3 | A | B0 |
| | CMF72029 | 220 | 470 | 1150 | 503 | 261 | 217 | 239 | 4 | A | B0 |
| JIS (B19) | CMF53520 | 35 | 52 | 330 | 187 | 127 | 199 | 219 | 0 | B | B0/W1 |
| | CMF53522 | 35 | 52 | 330 | 187 | 127 | 199 | 219 | 1 | B | B0/W1 |
| | CMF54026 | 40 | 63 | 350 | 187 | 127 | 199 | 219 | 0 | B | B0/W1 |
| | CMF54027 | 40 | 63 | 350 | 187 | 127 | 199 | 219 | 1 | B | B0/W1 |
| JIS (B24) | CMF54523 | 45 | 80 | 400 | 236 | 128 | 200 | 220 | 0 | A | B0 |
| | CMF54524 | 45 | 80 | 400 | 236 | 128 | 200 | 220 | 1 | A | B0 |
| | CMF54584 | 45 | 80 | 400 | 236 | 128 | 200 | 220 | 0 | B | B0 |
| | CMF54551 | 45 | 80 | 400 | 236 | 128 | 200 | 220 | 1 | B | B0 |
| - | CMF54577 | 45 | 70 | 380 | 217 | 134 | 200 | 220 | 0 | A | B1 |
| | CMF54578 | 45 | 70 | 380 | 217 | 134 | 200 | 220 | 0 | B | B1 |
| | CMF54579 | 45 | 70 | 380 | 217 | 134 | 200 | 220 | 1 | A | B1 |
| | CMF54580 | 45 | 70 | 380 | 217 | 134 | 200 | 220 | 1 | B | B1 |
| JIS(D23) | CMF56068 | 60 | 110 | 520 | 230 | 168 | 200 | 220 | 0 | A | B0/B1 |
| | CMF56069 | 60 | 110 | 520 | 230 | 168 | 200 | 220 | 1 | A | B0/B1 |
| JIS (D31) | CMF57512 | 75 | 120 | 600 | 301 | 172 | 200 | 220 | 0 | A | B0/B1 |
| | CMF57513 | 75 | 120 | 600 | 301 | 172 | 200 | 220 | 1 | A | B0/B1 |
| | CMF58513 | 85 | 160 | 660 | 301 | 172 | 200 | 220 | 0 | A | B0/B1 |
| | CMF58514 | 85 | 160 | 660 | 301 | 172 | 200 | 220 | 1 | A | B0/B1 |
| | CMF59518 | 95 | 170 | 720 | 301 | 172 | 200 | 220 | 0 | A | B0/B1 |
| | CMF59519 | 95 | 170 | 720 | 301 | 172 | 200 | 220 | 1 | A | B0/B1 |
| - | CMF59615 | 96 | 175 | 730 | 324 | 172 | 204 | 224 | 0 | A | B1 |
| | CMF59616 | 96 | 175 | 730 | 324 | 172 | 204 | 224 | 1 | A | B1 |
| JIS(E41) | CMF60016 | 100 | 175 | 750 | 403 | 173 | 209 | 231 | 0 | A | B0 |

Notice : The Specifications are subject to changes with or without notice



FOR AMERICAN VEHICLES(BCI CMF series)

| BCI Group Size | Part NO. | SAE CCA at 0° F(Amps) | RC(MIN) at 80° F | Dimension(mm) | | | | Lay-Out | Terminal | Hold Down | |
|----------------|-----------|-----------------------|------------------|---------------|-------|--------|-----------|---------|----------|-----------|----|
| | | | | Length | Width | Height | T. Height | | | | |
| 26/70 (70DT) | 26/70-450 | 450 | 75 | 208 | 179 | 184 | 204 | 10,17 | DUAL | B7 | |
| | 26/70-550 | 550 | 90 | 208 | 179 | 184 | 204 | 10,17 | DUAL | B7 | |
| 26 | 26-450 | 450 | 75 | 208 | 173 | 184 | 204 | 10 | A | B7 | |
| | 26-550 | 550 | 90 | 208 | 173 | 184 | 204 | 10 | A | B7 | |
| 26R | 26R-450 | 450 | 75 | 208 | 173 | 184 | 204 | 11 | A | B7 | |
| | 26R-550 | 550 | 90 | 208 | 173 | 184 | 204 | 11 | A | B7 | |
| 70 | 70-450 | 450 | 75 | 208 | 179 | 184 | 184 | 17 | H | B7 | |
| | 70-550 | 550 | 90 | 208 | 179 | 184 | 184 | 17 | H | B7 | |
| 34/78 (78DT) | 34/78-600 | 600 | 110 | 260 | 179 | 184 | 204 | 10,17 | DUAL | B7 | |
| | 34/78-700 | 700 | 130 | 260 | 179 | 184 | 204 | 10,17 | DUAL | B7 | |
| | 34/78-750 | 750 | 135 | 260 | 179 | 184 | 204 | 10,17 | DUAL | B7 | |
| 34 | 34-600 | 600 | 110 | 260 | 172 | 184 | 204 | 10 | A | B7 | |
| | 34-700 | 700 | 130 | 260 | 172 | 184 | 204 | 10 | A | B7 | |
| | 34-750 | 750 | 135 | 260 | 172 | 184 | 204 | 10 | A | B7 | |
| 78 | 78-600 | 600 | 110 | 260 | 179 | 184 | 184 | 17 | H | B7 | |
| | 78-700 | 700 | 130 | 260 | 179 | 184 | 184 | 17 | H | B7 | |
| | 78-750 | 750 | 135 | 260 | 179 | 184 | 184 | 17 | H | B7 | |
| 75/86 (75DT) | 75/86-520 | 520 | 90 | 230 | 179 | 184 | 204 | 10,17 | DUAL | B7 | |
| | 75/86-630 | 630 | 100 | 230 | 179 | 184 | 204 | 10,17 | DUAL | B7 | |
| 75 | 75-520 | 520 | 90 | 230 | 179 | 184 | 184 | 17 | H | B7 | |
| | 75-630 | 630 | 100 | 230 | 179 | 184 | 184 | 17 | H | B7 | |
| 86 (85R) | 86-520 | 520 | 90 | 230 | 173 | 184 | 204 | 10 | A | B7 | |
| | 86-630 | 630 | 100 | 230 | 173 | 184 | 204 | 10 | A | B7 | |
| 65 | 65-670 | 670 | 130 | 294 | 189 | 172 | 192 | 10 | A | B1 | |
| | 65-770 | 770 | 145 | 294 | 189 | 172 | 192 | 10 | A | B1 | |
| | 65-850 | 850 | 155 | 294 | 189 | 172 | 192 | 10 | A | B1 | |
| 31P | 31P-750 | 750 | 170 | 330 | 172 | 217 | 238 | 18 | A | B0 | |
| | 31P-850 | 850 | 180 | 330 | 172 | 217 | 238 | 18 | A | B0 | |
| | 31P-950 | 950 | 190 | 330 | 172 | 217 | 238 | 18 | A | B0 | |
| 31S | 31S-750 | 750 | 170 | 330 | 172 | 217 | 238 | 18 | G | B0 | |
| | 31S-850 | 850 | 180 | 330 | 172 | 217 | 238 | 18 | G | B0 | |
| | 31S-950 | 950 | 190 | 330 | 172 | 217 | 238 | 18 | G | B0 | |
| 31TWIN | 31M-750 | 750 | 170 | 330 | 172 | 217 | 238 | 18 | K | B0 | |
| | 31M-850 | 850 | 180 | 330 | 172 | 217 | 238 | 18 | K | B0 | |
| | 31M-950 | 950 | 190 | 330 | 172 | 217 | 238 | 18 | K | B0 | |
| 30H | 30H-750 | 750 | 175 | 325 | 172 | 203 | 223 | 10 | A | B1 | |
| | 30H-800 | 800 | 185 | 325 | 172 | 203 | 223 | 10 | A | B1 | |
| 58 | 58-500 | 500 | 72 | 241 | 182 | 157 | 177 | 10 | A | B8 | |
| | 58-560 | 560 | 78 | 241 | 182 | 157 | 177 | 10 | A | B8 | |
| 58R | 58R-500 | 500 | 72 | 241 | 182 | 157 | 177 | 11 | A | B8 | |
| | 58R-560 | 560 | 78 | 241 | 182 | 157 | 177 | 11 | A | B8 | |
| 24 | 24-450 | 450 | 95 | 260 | 175 | 200 | 220 | 10 | A | B1 | |
| | 24-500 | 500 | 110 | 260 | 175 | 200 | 220 | 10 | A | B1 | |
| | 24-550 | 550 | 110 | 260 | 175 | 200 | 220 | 10 | A | B1 | |
| | 24-600 | 600 | 120 | 260 | 175 | 200 | 220 | 10 | A | B1 | |
| | 24-620 | 620 | 130 | 260 | 175 | 200 | 220 | 10 | A | B1 | |
| 24R (124R) | 24-650 | 650 | 140 | 260 | 175 | 200 | 220 | 10 | A | B1 | |
| | 24R-450 | 450 | 95 | 260 | 175 | 200 | 220 | 11 | A | B1 | |
| | 24R-500 | 500 | 110 | 260 | 175 | 200 | 220 | 11 | A | B1 | |
| | 24R-550 | 550 | 110 | 260 | 175 | 200 | 220 | 11 | A | B1 | |
| | 24R-600 | 600 | 120 | 260 | 175 | 200 | 220 | 11 | A | B1 | |
| 21R(121R) | 24R-620 | 620 | 130 | 260 | 175 | 200 | 220 | 11 | A | B1 | |
| | 24R-650 | 650 | 140 | 260 | 175 | 200 | 220 | 11 | A | B1 | |
| | 21R-450 | 450 | 80 | 205 | 175 | 200 | 220 | 11 | A | B1 | |
| | 25 | 25-450 | 450 | 90 | 230 | 172 | 200 | 220 | 10 | A | B1 |
| | | 25-550 | 550 | 110 | 230 | 172 | 200 | 220 | 10 | A | B1 |
| 25-580 | | 580 | 115 | 230 | 172 | 200 | 220 | 10 | A | B1 | |
| 35 | 35-450 | 450 | 90 | 230 | 172 | 200 | 220 | 11 | A | B1 | |
| | 35-550 | 550 | 110 | 230 | 172 | 200 | 220 | 11 | A | B1 | |
| | 35-580 | 580 | 115 | 230 | 172 | 200 | 220 | 11 | A | B1 | |
| 27 | 27-620 | 620 | 130 | 301 | 172 | 200 | 220 | 10 | A | B1 | |
| | 27-660 | 660 | 160 | 301 | 172 | 200 | 220 | 10 | A | B1 | |
| | 27-750 | 750 | 165 | 301 | 172 | 200 | 220 | 10 | A | B1 | |
| | 27-780 | 780 | 170 | 301 | 172 | 200 | 220 | 10 | A | B1 | |
| 27R | 27R-620 | 620 | 130 | 301 | 172 | 200 | 220 | 11 | A | B1 | |
| | 27R-660 | 660 | 160 | 301 | 172 | 200 | 220 | 11 | A | B1 | |
| | 27R-750 | 750 | 165 | 301 | 172 | 200 | 220 | 11 | A | B1 | |
| | 27R-780 | 780 | 170 | 301 | 172 | 200 | 220 | 11 | A | B1 | |

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FOR AMERICAN VEHICLES(BCI CMF series)

| BCI Group Size | Part NO. | SAE CCA at 0° F(Amps) | RC(MIN) at 80° F | Dimension(mm) | | | | Lay-Out | Terminal | Hold Down |
|----------------|----------|-----------------------|------------------|---------------|-------|--------|-----------|---------|----------|-----------|
| | | | | Length | Width | Height | T. Height | | | |
| 51 | 51-370 | 370 | 65 | 236 | 128 | 200 | 220 | 10 | A | B0 |
| | 51-440 | 440 | 75 | 236 | 128 | 200 | 220 | 10 | A | B0 |
| | 51-460 | 460 | 80 | 236 | 128 | 200 | 220 | 10 | A | B0 |
| | 51-470 | 470 | 85 | 236 | 128 | 200 | 220 | 10 | A | B0 |
| 51R | 51R-370 | 370 | 65 | 236 | 128 | 200 | 220 | 11 | A | B0 |
| | 51R-440 | 440 | 75 | 236 | 128 | 200 | 220 | 11 | A | B0 |
| | 51R-460 | 460 | 80 | 236 | 128 | 200 | 220 | 11 | A | B0 |
| | 51R-470 | 470 | 85 | 236 | 128 | 200 | 220 | 11 | A | B0 |
| 151R | 151R-350 | 350 | 54 | 187 | 127 | 199 | 219 | 28 | B | B0 |
| | 151R-360 | 360 | 60 | 187 | 127 | 199 | 219 | 28 | B | B0 |
| | 151R-370 | 370 | 63 | 187 | 127 | 199 | 219 | 28 | B | B0 |
| 47 | 47-480 | 480 | 95 | 242 | 174 | 189 | 189 | 15 | A | B13 |
| | 47-520 | 520 | 105 | 242 | 174 | 189 | 189 | 15 | A | B13 |
| 48 | 48-540 | 540 | 110 | 275 | 174 | 189 | 189 | 15 | A | B13 |
| | 48-660 | 660 | 130 | 275 | 174 | 189 | 189 | 15 | A | B13 |
| 49 | 49-730 | 730 | 150 | 351 | 174 | 189 | 189 | 15 | A | B13 |
| | 49-800 | 800 | 170 | 351 | 174 | 189 | 189 | 15 | A | B13 |
| 90 | 90-490 | 490 | 85 | 242 | 174 | 174 | 174 | 15 | A | B13 |
| | 90-550 | 550 | 94 | 242 | 174 | 174 | 174 | 15 | A | B13 |
| 91 | 91-500 | 500 | 94 | 275 | 174 | 174 | 174 | 15 | A | B13 |
| | 91-570 | 570 | 110 | 275 | 174 | 174 | 174 | 15 | A | B13 |
| | 91-650 | 650 | 120 | 275 | 174 | 174 | 174 | 15 | A | B13 |
| 92 | 92-660 | 660 | 140 | 314 | 174 | 174 | 174 | 15 | A | B13 |
| | 92-720 | 720 | 155 | 314 | 174 | 174 | 174 | 15 | A | B13 |
| 93 | 93-720 | 720 | 155 | 351 | 173 | 174 | 174 | 15 | A | B13 |
| 94R | 94R-700 | 700 | 150 | 314 | 174 | 189 | 189 | 15 | A | B13 |
| | 94R-750 | 750 | 170 | 314 | 174 | 189 | 189 | 15 | A | B13 |
| 96R | 96R-440 | 440 | 80 | 242 | 174 | 174 | 174 | 15 | A | B13 |
| 4D | 4D-1000 | 1000 | 300 | 503 | 216 | 208 | 230 | 8 | A | B0 |
| | 4D-1050 | 1050 | 320 | 503 | 216 | 208 | 230 | 8 | A | B0 |
| 8D | 8D-1100 | 1100 | 430 | 503 | 261 | 217 | 239 | 8 | A | B0 |
| | 8D-1200 | 1200 | 470 | 503 | 261 | 217 | 239 | 8 | A | B0 |

FOR AUSTRALIAN VEHICLES

| TYPE No. | CCA (Amps) | RC (MIN) | MAX. Overall Dimension(mm) | | | | Lay-Out | Terminal | Weight with Acid (KGS) | Equivalent type |
|----------|------------|----------|----------------------------|-----|-----|-----|---------|----------|------------------------|-----------------|
| | | | L | W | H | TH | | | | |
| 42B19LDF | 332 | 52 | 187 | 127 | 199 | 219 | 0 | J | 9.6 | |
| MF43 | 360 | 60 | 236 | 128 | 170 | 195 | 0 | J | 11.2 | |

6 Volt GOLF CAR, Electric Vehicle & Motive Power Batteries (3 Cells)

| TYPE No. | Cranking Performance at 0° F(Amps) | Reserve Capacity at 80° F(MIN) | MAX. Overall Dimension(mm) | | | | Cell Lay-Out | Terminal | Weight W/O Acid(KGS) | Acid Volume (Approx. l) | Remarks |
|----------|------------------------------------|--------------------------------|----------------------------|-------|--------|-----------|--------------|----------|----------------------|-------------------------|---------|
| | | | Length | Width | Height | T. Height | | | | | |
| GC2 | 220 | 100 | 258 | 178 | 245 | 277 | 19 | I | 22.5 | 5.1 | H |

EB BATTERY 12 Volt

| Battery Type | Part NO. | Capacity at 5HR Rate(AH) | MAX. Overall Dimension(mm) | | | | Cell Lay-Out | Terminal | Weight With Acid(KGS) | Remarks |
|--------------|----------|--------------------------|----------------------------|-------|--------|-----------|--------------|----------|-----------------------|---------|
| | | | Length | Width | Height | T. Height | | | | |
| EB | 35 | 35 | 236 | 128 | 200 | 233 | 1 | I | 13.9 | |
| | | 35 | 236 | 128 | 200 | 220 | 1 | A | 13.7 | |
| | 65 | 65 | 301 | 172 | 202 | 236 | 1 | I | 24.5 | PH |
| | | 65 | 301 | 172 | 202 | 223 | 1 | A | 24.4 | PH |
| | 100 | 100 | 405 | 173 | 211 | 246 | 1 | I | 35.4 | PH |
| | | 100 | 405 | 173 | 211 | 241 | 1 | A | 35.3 | PH |
| | 120 | 120 | 503 | 184 | 213 | 257 | 3 | I | 41.7 | PH |
| | | 120 | 503 | 184 | 213 | 257 | 3 | A | 41.6 | PH |
| | 140 | 140 | 509 | 222 | 213 | 257 | 3 | I | 49.40 | PH |
| | | 140 | 509 | 222 | 213 | 257 | 3 | A | 49.30 | PH |

■ ALL Batteries are made of Polypropylene Container Cover.

■ Remarks: H-With Carrying Rope Handle PH-With Fixed Plastic Handle on the Cover
M-Cover with Central Ventilation N-Built-in Indicator

+ - FOR JAPANESE VEHICLES (JIS Conventional series)

| JIS Group | JIS No. | | Capacity | | -18°C CCA | RC | Dimension(mm) | | | | Lay-Out | Terminal | Weight (Kg) | Remarks |
|--------------------|---------|-----------------|----------|-----|-----------|-----|---------------|-----|-----|-----|---------|----------|-------------|---------|
| | New | Old | 20Hr | 5Hr | | | L | W | H | TH | | | | |
| A19 | 30A19R | 12N24-4 | 30 | 24 | 230 | 42 | 186 | 126 | 160 | 177 | 1 | C | 5.8 | |
| | 30A19L | 12N24-3 | 30 | 24 | 230 | 42 | 186 | 126 | 160 | 177 | 0 | C | 5.8 | |
| B20 | 36B20R | NS40 | 35 | 28 | 250 | 52 | 196 | 128 | 194 | 216 | 1 | B | 6.5 | |
| | 36B20L | NS40L | 35 | 28 | 250 | 52 | 196 | 128 | 194 | 216 | 0 | B | 6.5 | |
| C24 | 32C24R | N40 | 40 | 32 | 280 | 72 | 234 | 132 | 197 | 219 | 1 | A | 6.9 | |
| | 32C24L | N40L | 40 | 32 | 280 | 72 | 234 | 132 | 197 | 219 | 0 | A | 6.9 | |
| B24 | 46B24R | NS60 | 45 | 36 | 360 | 80 | 236 | 128 | 200 | 220 | 1 | B | 8.8 | |
| | 46B24L | NS60L | 45 | 36 | 360 | 80 | 236 | 128 | 200 | 220 | 0 | B | 8.8 | |
| | 46B24RS | NS60S | 45 | 36 | 360 | 80 | 236 | 128 | 200 | 220 | 1 | A | 8.8 | |
| | 46B24LS | NS60SL | 45 | 36 | 360 | 80 | 236 | 128 | 200 | 220 | 0 | A | 8.8 | |
| D26 | 48D26R | N50 | 50 | 40 | 360 | 90 | 258 | 168 | 202 | 222 | 1 | A | 8.8 | PH |
| | 48D26L | N50L | 50 | 40 | 360 | 90 | 258 | 168 | 202 | 222 | 0 | A | 8.8 | PH |
| | 55D26R | N50Z | 60 | 48 | 440 | 110 | 258 | 168 | 202 | 222 | 1 | A | 10.3 | PH |
| | 55D26L | N50ZL | 60 | 48 | 440 | 110 | 258 | 168 | 202 | 222 | 0 | A | 10.3 | PH |
| | 85D26R | NS110-5 NS70 | 70 | 60 | 520 | 120 | 258 | 168 | 202 | 222 | 1 | A | 11.8 | |
| | 85D26L | | 70 | 60 | 520 | 120 | 258 | 168 | 202 | 222 | 0 | A | 11.8 | |
| D31 | 75D31R | N70Z | 75 | 60 | 580 | 155 | 301 | 172 | 202 | 223 | 1 | A | 11.5 | PH |
| | 75D31L | N70ZL | 75 | 60 | 580 | 155 | 301 | 172 | 202 | 223 | 0 | A | 11.4 | PH |
| | 105D31R | NX120-7 | 90 | 72 | 650 | 159 | 302 | 172 | 202 | 223 | 1 | A | 14.1 | PH |
| | 105D31L | NX120-7L | 90 | 72 | 650 | 159 | 302 | 172 | 202 | 223 | 0 | A | 14.1 | PH |
| E41 | 105E41R | N100 | 100 | 80 | 720 | 190 | 403 | 173 | 209 | 231 | 1 | A | 15.4 | H |
| | 105E41L | N100L | 100 | 80 | 720 | 190 | 403 | 173 | 209 | 231 | 0 | A | 15.4 | H |
| F51 | 130F51 | N120 | 120 | 96 | 750 | 230 | 503 | 182 | 212 | 234 | 4 | A | 19.1 | H |
| G51 | 145G51 | N135 | 135 | 108 | 820 | 290 | 508 | 221 | 211 | 232 | 4 | A | 22.4 | H |
| | 155G51 | N150 | 150 | 120 | 900 | 310 | 508 | 221 | 211 | 232 | 4 | A | 23.9 | H |
| H52 | | N200A | 185 | 148 | 1000 | 390 | 508 | 271 | 217 | 239 | 4 | A | 29.5 | H |
| | 190H52 | N200 | 200 | 160 | 1200 | 430 | 508 | 271 | 217 | 239 | 4 | A | 30.7 | H |
| | | 6TN | 100 | 80 | 680 | 182 | 271 | 264 | 206 | 229 | 2 | A | 18.6 | H |
| HEAVY DUTY & TRUCK | 130E41 | NX200 | 115 | 92 | 820 | 230 | 405 | 173 | 208 | 230 | 0/1 | A | 18.4 | H |
| | 150F51 | NT200-12 | 130 | 108 | 920 | 270 | 503 | 182 | 213 | 257 | 3/4 | A | 23.0 | H,PH |
| | 170F51 | NX250-12 | 150 | 120 | 1060 | 305 | 503 | 182 | 213 | 257 | 4 | A | 25.4 | H,PH |
| | 165G51 | NS200 | 170 | 136 | 1100 | 358 | 509 | 221 | 213 | 257 | 3/4 | A | 28.9 | H,PH |
| | 195G51 | NX300-15 | 175 | 140 | 1160 | 365 | 509 | 221 | 213 | 257 | 3/4 | A | 29.7 | H,PH |
| | 245H52 | NX400-20 | 220 | 176 | 1315 | 490 | 516 | 273 | 220 | 264 | 3/4 | A | 38.1 | PH |

Notice : The Specifications are subject to changes with or without notice

Weight : Kilograms without acid



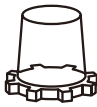
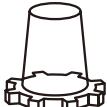
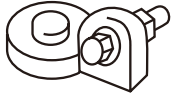





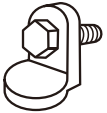

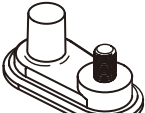
FOR EUROPEAN VEHICLES (DIN Conventional series)

| DIN Type No. | Capacity 20Hr(AH) | RC (MIN) | -18°C CCA (Amps) | Dimension(mm) | | | | Lay-Out | Terminal | H/B | Equivalent JIS type | Weight (Kg) | Remarks |
|--------------|-------------------|----------|------------------|---------------|-----|-----|-----|---------|----------|-----|---------------------|-------------|---------|
| | | | | L | W | H | TH | | | | | | |
| 53520 | 35 | 52 | 150 | 196 | 128 | 194 | 215 | 0 | B | - | NS40L | 6.5 | |
| 53522 | 35 | 52 | 150 | 196 | 128 | 194 | 215 | 1 | B | - | NS40R | 6.5 | |
| 54459 | 44 | 70 | 210 | 208 | 174 | 194 | 194 | 0 | A | B3 | | 8.5 | M |
| 54464 | 44 | 70 | 210 | 208 | 174 | 194 | 194 | 1 | A | B3 | | 8.5 | M |
| 54519 | 45 | 72 | 220 | 240 | 174 | 172 | 172 | 0 | A | B1 | | 8.1 | M |
| 54523 | 45 | 80 | 180 | 236 | 128 | 200 | 220 | 0 | A | - | NS60SL | 8.8 | |
| 54524 | 45 | 80 | 180 | 236 | 128 | 200 | 220 | 1 | A | - | NS60S | 8.8 | |
| 54551 | 45 | 80 | 180 | 236 | 128 | 200 | 220 | 1 | B | - | NS60 | 8.8 | |
| 54584 | 45 | 80 | 180 | 236 | 128 | 200 | 220 | 0 | B | - | NS60L | 8.8 | |
| 55559 | 55 | 90 | 255 | 241 | 174 | 190 | 190 | 0 | A | B3 | | 9.5 | M |
| 55565 | 55 | 90 | 255 | 241 | 174 | 190 | 190 | 1 | A | B3 | | 9.5 | M |
| 56219 | 62 | 100 | 280 | 241 | 174 | 190 | 190 | 0 | A | B3 | | 10.6 | M |
| 56220 | 62 | 100 | 280 | 241 | 174 | 190 | 190 | 1 | A | B3 | | 10.6 | M |
| 56048 | 60 | 110 | 235 | 265 | 168 | 202 | 222 | 0 | A | B9 | | 10.3 | |
| 56049 | 60 | 110 | 235 | 265 | 168 | 202 | 222 | 1 | A | B9 | | 10.3 | |
| 56318 | 63 | 90 | 300 | 287 | 174 | 175 | 175 | 0 | A | B4 | | 9.6 | M |
| 56638 | 66 | 100 | 300 | 300 | 175 | 190 | 190 | 0 | A | B3 | | 11.2 | M |
| 57024 | 70 | 120 | 315 | 265 | 168 | 202 | 222 | 1 | A | B9 | | 11.8 | |
| 57029 | 70 | 120 | 315 | 265 | 168 | 202 | 222 | 0 | A | B9 | | 11.8 | |
| 57113 | 71 | 100 | 400 | 279 | 174 | 174 | 174 | 0 | A | B3 | | 11.2 | M |
| 57220 | 72 | 130 | 420 | 300 | 175 | 188 | 180 | 0 | A | B3 | | 14.3 | M |
| 57512 | 75 | 114 | 320 | 301 | 172 | 202 | 223 | 0 | A | - | N70ZL | 11.4 | |
| 57513 | 75 | 114 | 320 | 301 | 172 | 202 | 223 | 1 | A | - | N70Z | 11.5 | |
| 58827 | 88 | 145 | 395 | 377 | 176 | 190 | 190 | 1 | A | - | | 14.9 | M |
| 59017 | 90 | 150 | 260 | 330 | 173 | 206 | 227 | 0 | A | - | | 13.7 | |
| 59018 | 90 | 150 | 260 | 330 | 173 | 206 | 227 | 1 | A | - | | 13.7 | |
| 59218 | 92 | 160 | 450 | 377 | 176 | 190 | 190 | 0 | A | B3 | | 16.4 | M |
| 59615 | 96 | 190 | 360 | 330 | 173 | 206 | 227 | 0 | A | - | | 15.2 | |
| 59616 | 96 | 190 | 360 | 330 | 173 | 206 | 227 | 1 | A | - | | 15.2 | |
| 60013 | 100 | 182 | 440 | 270 | 265 | 205 | 227 | 2 | A | - | 6TN | 18.6 | H |
| 60016 | 100 | 173 | 360 | 403 | 173 | 208 | 230 | 0 | A | - | | 15.4 | H |
| 62034 | 120 | 230 | 420 | 515 | 190 | 193 | 214 | 3 | A | - | | 21.2 | H |
| 62038 | 120 | 230 | 420 | 515 | 190 | 193 | 214 | 4 | A | - | | 21.2 | H |
| 63588 | 135 | 290 | 420 | 508 | 221 | 211 | 232 | 4 | A | - | N135 | 22.3 | H |
| 67018 | 170 | 360 | 600 | 513 | 221 | 193 | 214 | 3 | A | - | | 28.1 | H |
| 68021 | 180 | 360 | 570 | 508 | 271 | 217 | 238 | 4 | A | - | N200A | 29.3 | H |
| 70027 | 200 | 430 | 650 | 507 | 271 | 216 | 238 | 3 | A | - | | 30.7 | H |
| 70029 | 200 | 430 | 650 | 507 | 271 | 216 | 238 | 4 | A | - | | 30.7 | H |

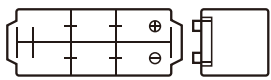
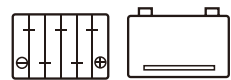
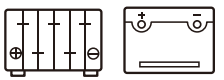
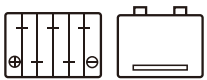

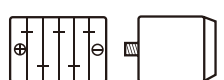

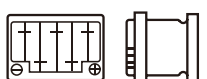
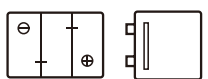
Notice : The Specifications are subject to changes with or without notice

Weight : Kilograms without acid

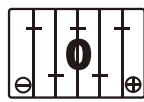

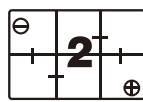
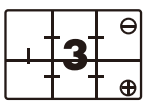
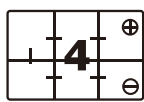
■ **Terminal**

| | | | |
|--|--|---|--|
| A | B | C | |
|  Standard |  Small |  Type BN | |
| D | E | F | G |
|  Type X |  Ford Type |  Type V (Marine) |  Type T (Stud) |
| H | I | J | K |
|  Side Type |  Type L |  Dual Fit Type |  Marine Twin |

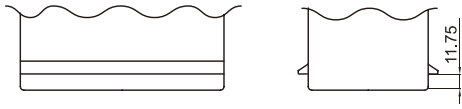
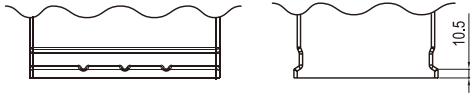
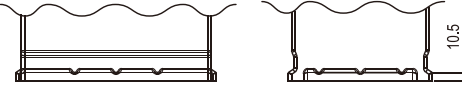
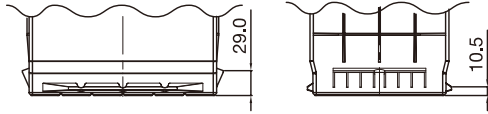
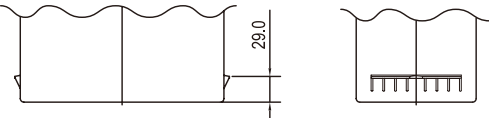
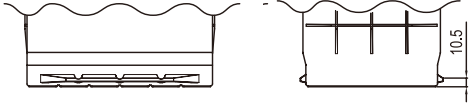
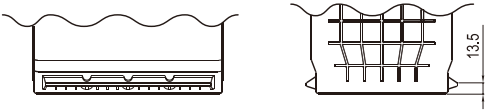
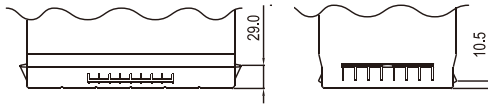
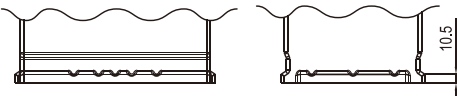
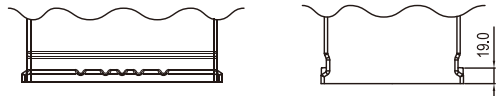
■ **BCI Assembly Numbers, Cell Lay-out**

| | | | | | |
|----------------|---|----------------|---|---------------|---|
| FIG.8 |  | FIG.11 |  | FIG.17 |  |
| FIG.10 |  | FIG.11F |  | FIG.18 |  |
| FIG.10F |  | FIG.15 |  | FIG.19 |  |

■ **Cell Lay-out**

| | | | | |
|---|---|---|--|---|
| 0 | 1 | 2 | 3 | 4 |
|  |  |  |  |  |

■ **Base Hold-Down**

| | | | |
|-------------------|---|-------------------|--|
| <p>W1</p> |  | <p>B1</p> |  |
| <p>B3</p> |  | <p>B5</p> |  |
| <p>B6</p> |  | <p>B7</p> |  |
| <p>B8</p> |  | <p>B9</p> |  |
| <p>B13</p> |  | <p>B14</p> |  |

Notice : The Specifications are subject to changes with or without notice



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