

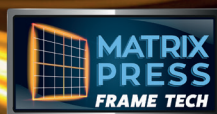
TURBO
BATTERY



TURBO BATTERY

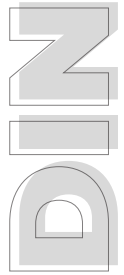
With Punch Press Technology

LONGER Lifespan
Charging Time
Eco-Friendly



DIN TYPE

STARTER BATTERIES



Specifications

- Superior Cranking Power
- Conforms to the original equipments of the vehicle
- Sealed Maintenance Free
- Punch Grid Technology



30% High Performance



Increased Vibration Strength



Durability



+Ca Ca Technology

DIN TYPE

| Code | Type | BCI Type | Box Type | Capacity (Ah) | CCA EN (-18 C) | CCA SAE (-18 C) | Reserve Capacity | Length (Mm) | Width (Mm) | Height (Mm) | Terminal Layout | Hold Down | Terminal | Truck Pallet | Container Pallet |
|------------|------|----------|----------|---------------|----------------|-----------------|------------------|-------------|------------|-------------|-----------------|-----------|----------|--------------|------------------|
| SMF-54459 | L1 | 26 | L1 | 45 | 450 | 480 | 70 | 207 | 174 | 188 | 0 | B13 | A | 80 | 120 |
| SMF-54464 | L1 | 26 | L1 | 45 | 450 | 480 | 70 | 207 | 174 | 188 | 1 | B13 | A | 80 | 120 |
| SMF-54321 | LB1 | 99 | LB1 | 45 | 450 | 480 | 68 | 207 | 174 | 173 | 0 | B13 | A | 80 | 120 |
| SMF-54322 | LB1 | 99 | LB1 | 45 | 450 | 480 | 68 | 207 | 174 | 173 | 1 | B13 | A | 80 | 120 |
| SMF-55559 | L2 | 47 | L2 | 55 | 540 | 580 | 88 | 240 | 175 | 189 | 0 | B13 | A | 64 | 96 |
| SMF- 55565 | L2 | 47 | L2 | 55 | 540 | 580 | 88 | 240 | 175 | 189 | 1 | B13 | A | 64 | 96 |
| SMF-56019 | L2 | 47 | L2 | 60 | 590 | 630 | 98 | 240 | 175 | 189 | 0 | B13 | A | 64 | 96 |
| SMF-56020 | L2 | 47 | L2 | 60 | 590 | 630 | 98 | 240 | 175 | 189 | 1 | B13 | A | 64 | 96 |
| SMF 55509 | LB2 | 42 | LB2 | 55 | 540 | 580 | 88 | 240 | 175 | 175 | 0 | B13 | A | 64 | 96 |
| SMF 55510 | LB2 | 42 | LB2 | 55 | 540 | 580 | 88 | 240 | 175 | 175 | 1 | B13 | A | 64 | 96 |
| SMF-56249 | LB2 | 42 | LB2 | 60 | 590 | 630 | 98 | 240 | 175 | 175 | 0 | B13 | A | 64 | 96 |
| SMF-56250 | LB2 | 42 | LB2 | 60 | 590 | 630 | 98 | 240 | 175 | 175 | 1 | B13 | A | 64 | 96 |
| SMF 56638 | L3 | 41 | L3 | 70 | 690 | 740 | 118 | 277 | 175 | 191 | 0 | B13 | A | 60 | 90 |
| SMF 56640 | L3 | 41 | L3 | 70 | 690 | 740 | 118 | 277 | 175 | 191 | 1 | B13 | A | 60 | 90 |
| SMF-57412 | L3 | 41 | L3 | 72 | 740 | 790 | 128 | 277 | 175 | 191 | 0 | B01 | A | 60 | 90 |
| SMF-57413 | L3 | 41 | L3 | 72 | 740 | 790 | 128 | 277 | 175 | 191 | 1 | B01 | A | 60 | 90 |
| SMF-57113 | LB3 | 48 | LB3 | 70 | 740 | 790 | 128 | 277 | 175 | 176 | 0 | B13 | A | 60 | 90 |
| SMF-57114 | LB3 | 48 | LB3 | 70 | 740 | 790 | 128 | 277 | 175 | 176 | 1 | B13 | A | 60 | 90 |
| SMF-58043 | L4 | 43/94 | L4 | 80 | 720 | 770 | 138 | 313 | 175 | 189 | 0 | B13 | A | 48 | 72 |
| SMF-57539 | LB4 | 92 | LB4 | 80 | 720 | 770 | 138 | 312 | 175 | 174 | 0 | B13 | A | 48 | 72 |
| SMF-58827 | L5 | 49 | L5 | 88 | 710 | 770 | 154 | 353 | 175 | 190 | 0 | B13 | A | 48 | 72 |
| SMF-58893 | LB5 | 93 | LB5 | 88 | 710 | 770 | 154 | 353 | 175 | 175 | 0 | B13 | A | 48 | 72 |
| SMF-60038 | L5 | 49 | L5 | 100 | 900 | 970 | 179 | 353 | 175 | 190 | 0 | B13 | A | 48 | 72 |
| SMF-60093 | LB5 | 93 | LB5 | 100 | 900 | 970 | 179 | 353 | 175 | 175 | 0 | B13 | A | 48 | 72 |
| SMF-60039 | L5 | 49 | L5 | 100 | 900 | 970 | 179 | 353 | 175 | 190 | 1 | B13 | A | 48 | 72 |

JIS TYPE

STARTER BATTERIES



Specifications

- Superior Cranking Power
- Conforms to the original equipments of the vehicle
- Sealed Maintenance Free
- Punch Grid Technology



30% Higher Performance



Increased Vibration Strength



Durability



+Ca Ca Technology



JIS TYPE

| Code | Type | BCI Type | Box Type | Capacity (Ah) | CCA EN (-18 C) | CCA SAE (-18 C) | Reserve Capacity | Length (Mm) | Width (Mm) | Height (Mm) | Terminal Layout | Hold Down | Terminal | Truck Pallet | Container Pallet |
|----------------|----------|----------|----------|---------------|----------------|-----------------|------------------|-------------|------------|-------------|-----------------|-----------|----------|--------------|------------------|
| SMF-40B19L | B19/NS40 | N/A | B19/NS40 | 35 | 280 | 300 | 52 | 196 | 136 | 225 | 0 | B01 | B | 116 | 174 |
| SMF-40B19R | B19/NS40 | N/A | B19/NS40 | 35 | 280 | 300 | 52 | 196 | 136 | 225 | 1 | B01 | B | 116 | 174 |
| SMF-40B19FL | B19/NS40 | N/A | B19/NS40 | 45 | 360 | 390 | 64 | 196 | 136 | 225 | 0 | B01 | B | 116 | 174 |
| SMF-40B19FR | B19/NS40 | N/A | B19/NS40 | 45 | 360 | 390 | 64 | 196 | 136 | 225 | 1 | B01 | B | 116 | 174 |
| SMF-NS-50B24FL | B24/NS60 | 51 | B24/NS60 | 42 | 320 | 340 | 61 | 238 | 134 | 225 | 0 | B01 | B | 84 | 126 |
| SMF-NS-50B24FR | B24/NS60 | 51 | B24/NS60 | 42 | 320 | 340 | 61 | 238 | 134 | 225 | 1 | B01 | B | 84 | 126 |
| SMF-50B24FL | B24/NS60 | 51 | B24/NS60 | 50 | 400 | 430 | 79 | 238 | 134 | 225 | 0 | B01 | B | 84 | 126 |
| SMF-50B24FR | B24/NS60 | 51 | B24/NS60 | 50 | 400 | 430 | 79 | 238 | 134 | 225 | 1 | B01 | B | 84 | 126 |
| SMF-50B24L | B24/NS60 | 51 | B24/NS60 | 50 | 400 | 430 | 79 | 238 | 134 | 225 | 0 | B0 | B | 84 | 126 |
| SMF-50B24R | B24/NS60 | 51 | B24/NS60 | 50 | 400 | 430 | 79 | 238 | 134 | 225 | 1 | B0 | B | 84 | 126 |
| SMF-55D23L | D23 | 35 | D23 | 60 | 600 | 640 | 98 | 235 | 178 | 220 | 0 | B01 | A | 64 | 96 |
| SMF-55D23R | D23 | 25 | D23 | 60 | 600 | 640 | 98 | 235 | 178 | 220 | 1 | B01 | A | 64 | 96 |
| SMF-80D26L | D26/NS50 | 24 | D26/NS50 | 70 | 720 | 770 | 138 | 260 | 173 | 220 | 0 | B01 | A | 64 | 96 |
| SMF-80D26R | D26/NS50 | 24 | D26/NS50 | 70 | 720 | 770 | 138 | 260 | 173 | 220 | 1 | B01 | A | 64 | 96 |
| SMF-105D31FL | D31/N70 | 27 | D31/N70 | 95 | 690 | 740 | 172 | 304 | 173 | 224 | 0 | B01 | A | 48 | 72 |
| SMF-105D31FR | D31/N70 | 27 | D31/N70 | 95 | 690 | 740 | 172 | 304 | 173 | 224 | 1 | B01 | A | 48 | 72 |
| SMF-115D31FL | D31/N70 | 27 | D31/N70 | 110 | 740 | 800 | 196 | 304 | 173 | 224 | 0 | B01 | A | 48 | 72 |
| SMF-115D31FR | D31/N70 | 27 | D31/N70 | 110 | 740 | 800 | 196 | 304 | 173 | 224 | 1 | B01 | A | 48 | 72 |

HEAVY DUTY

STARTER BATTERIES



HEAVY DUTY



Features

- Superior Cranking Power
- Enhanced Durability
- Maintenance-Free
- Fast Recharge



30% High Performance



Increased Vibration Strength



Durability



+Ca Ca Technology

HEAVY DUTY

| Code | Type | BCI Type | Box Type | Capacity (Ah) | CCA EN (-18 C) | CCA SAE (-18 C) | Reserve Capacity | Length (Mm) | Width (Mm) | Height (Mm) | Terminal Layout | Hold Down | Terminal | Truck Pallet | Container Pallet |
|----------|------|----------|----------|---------------|----------------|-----------------|------------------|-------------|------------|-------------|-----------------|-----------|----------|--------------|------------------|
| MF 62034 | N120 | N/A | D4/A | 120 | 820 | 880 | 227 | 512 | 188 | 213 | 3 | B03 | A | 28 | 35 |
| MF-63530 | N135 | N/A | D4/A | 140 | 980 | 1050 | 265 | 512 | 188 | 213 | 3 | B03 | A | 28 | 35 |
| MF-150 | N150 | 4D | D5/B | 150 | 950 | 1020 | 292 | 512 | 222 | 215 | 3 | B0 | A | 24 | 30 |
| MF-67018 | N170 | 4D | D5/B | 170 | 1040 | 1120 | 330 | 512 | 222 | 215 | 3 | B0 | A | 24 | 30 |
| MF-67019 | N170 | 4D | D5/B | 170 | 1040 | 1120 | 330 | 512 | 222 | 215 | 4 | B0 | A | 24 | 30 |
| MF-68032 | N180 | 4D | D5/B | 180 | 1070 | 1150 | 357 | 512 | 222 | 215 | 3 | B0 | A | 24 | 30 |
| MF-72511 | N225 | 8D | D6/C | 225 | 1170 | 1260 | 467 | 515 | 275 | 236 | 3 | B0 | A | 20 | 25 |
| MF-74050 | N235 | 8D | D6/C | 235 | 1250 | 1340 | 495 | 515 | 275 | 236 | 3 | B0 | A | 20 | 25 |

AGRICULTURAL

STARTER BATTERIES



AGRICULTURAL

Features

- Superior Cranking Power
- Enhanced Durability
- Maintenance-Free
- Fast Recharge



%30 Higher Performance



Increased Vibration Strength



Durability



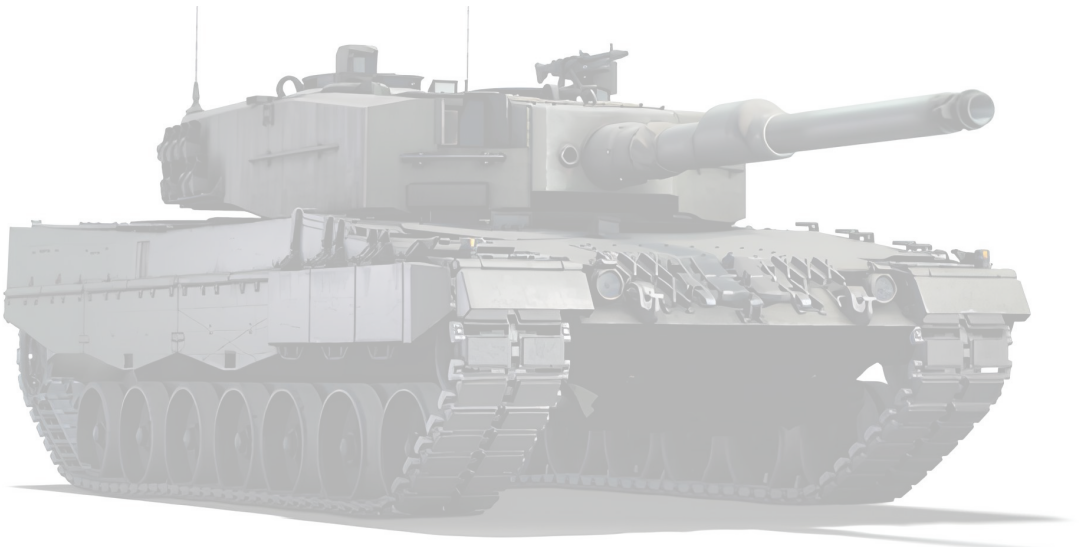
+Ca Ca Technology

HEAVY DUTY

| Code | Type | BCI Type | Box Type | Capacity (Ah) | CCA EN (-18 C) | CCA SAE (-18 C) | Reserve Capacity | Length (Mm) | Width (Mm) | Height (Mm) | Terminal Layout | Hold Down | Terminal | Truck Pallet | Container Pallet |
|---------|------|----------|----------|---------------|----------------|-----------------|------------------|-------------|------------|-------------|-----------------|-----------|----------|--------------|------------------|
| MF-90TH | N90 | N/A | H4 | 90 | 640 | 690 | 166 | 349 | 174 | 227 | 0 | B03 | A | 48 | 72 |
| MF-105T | N105 | N/A | H4 | 105 | 740 | 800 | 190 | 349 | 174 | 227 | 0 | B03 | A | 48 | 72 |
| MF-90TD | N90 | N/A | D2 | 90 | 640 | 690 | 166 | 345 | 175 | 233 | 0 | B0 | A | 72 | 42 |
| MF-115T | N115 | N/A | D2 | 115 | 800 | 860 | 202 | 345 | 175 | 233 | 0 | B0 | A | 72 | 42 |

NATO D7

STARTER BATTERIES



NATO D7

Features

- Heavy Duty
- Deep Discharge Ability
- High Vibration Resistance
- High Cranking Performance
- Matrix Press
- Long Shelf Life



30% Higher Performance



Increased Vibration Strength



Durability



+Ca Ca Technology

NATO D7

| Code | Type | Capacity (Ah) | CCA EN (-18 C) | CCA SAE (-18 C) | Reserve Capacity | Length (Mm) | Width (Mm) | Height (Mm) | Terminal Layout | Hold Down | Terminal | Truck Pallet | Container Pallet |
|-----------|------|---------------|----------------|-----------------|------------------|-------------|------------|-------------|-----------------|-----------|----------|--------------|------------------|
| 516N27000 | D7 | 100 | 940 | 1000 | 179 | 283 | 268 | 228 | 2 | B0 | A | 24 | 24 |
| 516N33000 | D7 | 125 | 1160 | 1250 | 234 | 283 | 268 | 228 | 2 | B0 | A | 24 | 24 |

BCI GROUP

STARTER BATTERIES



BCI GROUP

Features

- High Cranking Power
- Deep-Cycle Capability
- Vibration Resistance
- Sealed Maintenance-Free
- Quick Recharge



%30 Higher Performance



Increased Vibration Strength



Durability



+Ca Ca Technology



| BCI31/BCI65 | | | | | | | | | | | | | | | |
|-------------|------|----------|----------|---------------|----------------|-----------------|------------------|-------------|------------|-------------|-----------------|-----------|----------|--------------|------------------|
| Code | Type | BCI Type | Box Type | Capacity (Ah) | CCA EN (-18 C) | CCA SAE (-18 C) | Reserve Capacity | Length (Mm) | Width (Mm) | Height (Mm) | Terminal Layout | Hold Down | Terminal | Truck Pallet | Container Pallet |
| BCI31-940M | 31 | 31M | BCI31 | 120 | 820 | 880 | 223 | 330 | 173 | 238 | 18 | B0 | M | 48 | 72 |
| BCI31-940P | 31 | 31P | BCI31 | 120 | 820 | 880 | 223 | 330 | 173 | 238 | 18 | B0 | P | 48 | 72 |
| BCI31-940S | 31 | 31S | BCI31 | 120 | 820 | 880 | 223 | 330 | 173 | 238 | 18 | B0 | S | 48 | 72 |
| BCI31-990ZL | 31 | 31Z | BCI31 | 135 | 920 | 990 | 256 | 330 | 173 | 238 | 0 | B0 | Z | 48 | 72 |
| BCI31-990ZR | 31 | 31Z | BCI31 | 135 | 920 | 990 | 256 | 330 | 173 | 238 | 1 | B0 | Z | 48 | 72 |
| BCI65-860AL | 65 | 65 | BCI65 | 80 | 800 | 860 | 138 | 282 | 182 | 190 | 0 | B08 | A | 48 | 72 |
| BCI65-860AR | 65 | 65 | BCI65 | 80 | 800 | 860 | 138 | 282 | 182 | 190 | 1 | B08 | A | 48 | 72 |

START- STOP/EFB

STARTER BATTERIES



START- STOP/EFB

Features

- Optimized for Start-Stop Systems
- Superior Cycle Life
- Advanced Energy Management
- Enhanced Durability
- Sealed Maintenance-Free



EFB



%30 High Performance



Increased Vibration Strength



Durability



+Ca Ca Technology

START - STOP /EFB

| Code | Type | BCI Type | Box Type | Capacity (Ah) | CCA EN (-18 C) | CCA SAE (-18 C) | Reserve Capacity | Length (Mm) | Width (Mm) | Height (Mm) | Terminal Layout | Hold Down | Terminal | Truck Pallet | Container Pallet |
|-------------|---------|----------|----------|---------------|----------------|-----------------|------------------|-------------|------------|-------------|-----------------|-----------|----------|--------------|------------------|
| EFB47-650L | L2 | 47 | L2 | 60 | 600 | 650 | 98 | 240 | 175 | 189 | 0 | B13 | A | 64 | 96 |
| EFB47-650R | L2 | 47 | L2 | 60 | 600 | 650 | 98 | 240 | 175 | 189 | 1 | B13 | A | 64 | 96 |
| EFB41-750L | L3 | 41 | L3 | 70 | 700 | 750 | 116 | 277 | 175 | 191 | 0 | B13 | A | 60 | 78 |
| EFB41-750R | L3 | 41 | L3 | 70 | 700 | 750 | 116 | 277 | 175 | 191 | 1 | B13 | A | 60 | 78 |
| EFB43-860L | L4 | 43/94 | L4 | 80 | 800 | 860 | 138 | 313 | 175 | 189 | 0 | B13 | A | 48 | 72 |
| EFB43-860R | L4 | 43/94 | L4 | 80 | 800 | 860 | 138 | 313 | 175 | 189 | 1 | B13 | A | 48 | 72 |
| EFB49-910L | L5 | 49 | L5 | 100 | 840 | 900 | 205 | 353 | 175 | 190 | 0 | B13 | A | 48 | 72 |
| EFB49-910R | L5 | 49 | L5 | 100 | 840 | 900 | 205 | 353 | 175 | 190 | 1 | B13 | A | 48 | 72 |
| EFB-Q85-TL | D23 | 35 | D23 | 65 | 520 | 560 | 96 | 235 | 178 | 220 | 0 | B01 | A | 64 | 96 |
| EFB-Q85-TR | D23 | 25 | D23 | 65 | 520 | 560 | 96 | 235 | 178 | 220 | 1 | B01 | A | 64 | 96 |
| EFB-S95-TL | D26/N50 | 24 | D26/N50 | 70 | 640 | 690 | 118 | 260 | 173 | 220 | 0 | B01 | A | 64 | 96 |
| EFB-S95-TR | D26/N50 | 24 | D26/N50 | 70 | 640 | 690 | 118 | 260 | 173 | 220 | 1 | B01 | A | 64 | 96 |
| EFB-B31M660 | 31 | 31E | BCI31 | 90 | 610 | 660 | 158 | 330 | 173 | 238 | 18 | B0 | M | 48 | 72 |
| EFB-T110-TL | D31/N70 | 27 | D31/N70 | 100 | 690 | 740 | 172 | 304 | 173 | 224 | 0 | B01 | A | 48 | 72 |
| EFB-T110-TR | D31/N70 | 27 | D31/N70 | 100 | 690 | 740 | 172 | 304 | 173 | 224 | 1 | B01 | A | 48 | 72 |
| EFB-B31M660 | 31 | 31E | BCI31 | 120 | 820 | 880 | 223 | 330 | 173 | 238 | 18 | B0 | M | 48 | 72 |

MARINE

STARTER BATTERIES



MARINE

Features

- High Cranking Power
- Deep-Cycle Capability:
- Vibration Resistance
- Corrosion Resistance:
- Sealed Maintenance-Free



%30 Higher Performance



Increased Vibration Strength



Durability



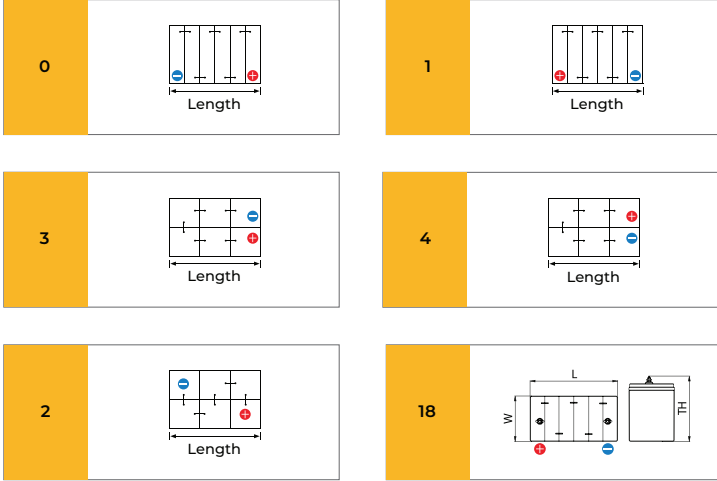
+Ca Ca Technology

MARINE

| Code | Type | BCI Type | Box Type | Capacity (Ah) | CCA EN (-18 C) | CCA SAE (-18 C) | Reserve Capacity | Length (Mm) | Width (Mm) | Height (Mm) | Terminal Layout | Hold Down | Terminal | Truck Pallet | Container Pallet |
|------------|-------|----------|----------|---------------|----------------|-----------------|------------------|-------------|------------|-------------|-----------------|-----------|----------|--------------|------------------|
| MARINE-110 | BCI31 | 31 | BCI31 | 110 | 710 | 760 | 201 | 330 | 173 | 238 | 1 | B0 | M | 48 | 72 |
| MARINE-110 | BCI31 | 31 | BCI31 | 110 | 710 | 760 | 201 | 330 | 173 | 238 | 1 | B0 | S | 48 | 72 |
| MARINE-120 | BCI31 | 31 | BCI31 | 120 | 820 | 880 | 223 | 330 | 173 | 238 | 1 | B0 | M | 48 | 72 |
| MARINE-120 | BCI31 | 31 | BCI31 | 120 | 820 | 880 | 223 | 330 | 173 | 238 | 1 | B0 | S | 48 | 72 |
| MARINE-125 | BCI31 | 31 | BCI31 | 125 | 870 | 940 | 234 | 330 | 173 | 238 | 1 | B0 | M | 48 | 72 |
| MARINE-125 | BCI31 | 31 | BCI31 | 125 | 870 | 940 | 234 | 330 | 173 | 238 | 1 | B0 | S | 48 | 72 |
| MARINE-135 | BCI31 | 31 | BCI31 | 135 | 920 | 990 | 256 | 330 | 173 | 238 | 1 | B0 | M | 48 | 72 |
| MARINE-135 | BCI31 | 31 | BCI31 | 135 | 920 | 990 | 256 | 330 | 173 | 238 | 1 | B0 | S | 48 | 72 |

TECHNICAL INFORMATION

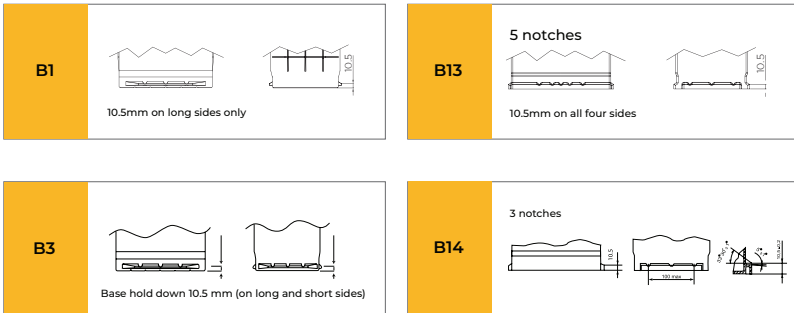
LAYOUT



TERMINAL

| Terminal | A (Standart) | B (Small) | Stud | Dual |
|----------|--------------|-----------|--------------------|------|
| Positive | | | 3/8"-16 Thread | |
| Negative | | | 3/8"-16 Thread | |

HOLD DOWN

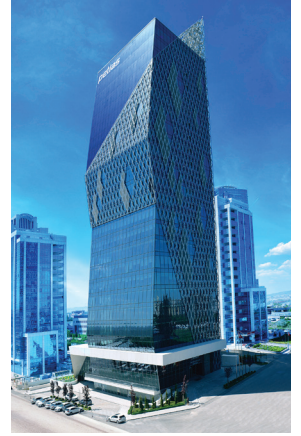


For B0 there is no Hold-Down





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AKO Tire Retreading Factory

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IS AT ITS PEAK!**

