

Keep your heavy -duty  
Equipment operating  
With **KOYAMA**  
Super Heavy Duty  
Batteries



## SUPER HEAVY DUTY COMMERCIAL BATTERIES

**KOYAMA Super Heavy Duty Battery is the perfect choice for highly equipped commercial vehicles(HGVs) like trucks, coaches ,ship , boats and emergency vehicles.**

### MAIN BENEFITS

- Designed for high-performance commercial vehicles, heavy power demands and high vibration requirements
- Exceeds EN Super Heavy Duty(SHD) requirements standard and vibrations resistance
- Perfectly meet water consumption requirements standard, that is absolutely maintenance free and long life span



### APPLICATION

|                       |                                                                                       |                              |
|-----------------------|---------------------------------------------------------------------------------------|------------------------------|
| HGVs/Trucks           |   | Vehicles with sleeper cap    |
|                       |                                                                                       | Vehicles without sleeper cap |
|                       |                                                                                       | Vehicles with lifter         |
|                       |                                                                                       | Vehicles without lifter      |
|                       |                                                                                       | Classic Van                  |
|                       |                                                                                       | Municipal vehicles           |
|                       |                                                                                       | Dumper trucks                |
| Construction Vehicles |  | Excavators                   |
|                       |                                                                                       | Bulldozers                   |
|                       |                                                                                       | Wheeled loaders              |
|                       |                                                                                       | Crane trucks                 |
| Buses                 |  | Coaches                      |
|                       |                                                                                       | Buses                        |
|                       |                                                                                       | Minibuses                    |
| Agricultural Vehicles |  | Small tractors               |
|                       |                                                                                       | Large tractors               |
|                       |                                                                                       | Combine                      |
| Ships                 |  | Naval Vessels                |
|                       |                                                                                       | Commercial Vessels           |
|                       |                                                                                       | Industrial Vessels           |

## SPECIFICATION

| Gr.No                                                      |     | Type No. | ETN NO.     | Capacity  | CCA      | Dimension (mm) |     |     |     | Layout | Terminal | Weight(KG) |      |
|------------------------------------------------------------|-----|----------|-------------|-----------|----------|----------------|-----|-----|-----|--------|----------|------------|------|
|                                                            |     |          | Old JIS NO. | (AH-20Hr) | (EN/SAE) | L              | W   | H   | TH  |        |          | DRY        | Wet  |
| 12-VOLT SUPER HEAVY DUTY COMMERCIAL SEALED BATTERIES       |     |          |             |           |          |                |     |     |     |        |          |            |      |
| EN                                                         | EN  | SHD68032 | 680 032 100 | 180       | 1600     | 508            | 216 | 201 | 224 | 3      | A        |            | 47   |
|                                                            |     | SHD72512 | 725012225   | 225       | 1800     | 515            | 274 | 217 | 242 | 3      | A        |            | 64.5 |
| 12-VOLT SUPER HEAVY DUTY COMMERCIAL CONVENTIONAL BATTERIES |     |          |             |           |          |                |     |     |     |        |          |            |      |
| JIS                                                        | H52 | SHDN280  | N280        | 280       | 1620     | 520            | 282 | 225 | 260 | 4      | A/L      | 43.5       | 65   |
|                                                            |     | SHDN260  | N260        | 260       | 1560     | 520            | 275 | 215 | 250 | 4      | A/L      | 41.2       | 63   |
|                                                            |     | SHDN240  | N240        | 240       | 1300     | 520            | 275 | 215 | 250 | 4      | A/L      | 37         | 59.5 |
|                                                            |     | SHDN220  | N220        | 220       | 1230     | 520            | 275 | 215 | 250 | 4      | A/L      | 35.5       | 58   |
|                                                            |     | SHDN200  | N200        | 200       | 1150     | 520            | 275 | 215 | 250 | 4      | A/L      | 31.2       | 54   |

-KOYAMA SHD Commercial Batteries are available wet and some can be ordered bone-dry. Our special dry-charge process completely eliminates moisture for virtually unlimited shelf life when compared to inferior "moist-dry" types.

-Most popular sizes feature tough polypropylene cases which resist breakage and extend service life. Many are also available with handles and special terminals for easy installation.

-Batteries manufactured in polypropylene cases & covers, except where noted

## LAY OUT DETAILS

| Layout                                                                                                                                                                                                                                    | Terminal L | Terminal A (Standard) |   |  |  |   |  |  |   |  |  |   |                                                                                     |                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------|---|--|--|---|--|--|---|--|--|---|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>3</div> <table border="1"> <tr><td></td><td></td><td>-</td></tr> <tr><td></td><td></td><td>+</td></tr> </table> <div>4</div> <table border="1"> <tr><td></td><td></td><td>+</td></tr> <tr><td></td><td></td><td>-</td></tr> </table> |            |                       | - |  |  | + |  |  | + |  |  | - |  | <div>   </div> <div>Positive Terminal      Negative Terminal</div> |
|                                                                                                                                                                                                                                           |            | -                     |   |  |  |   |  |  |   |  |  |   |                                                                                     |                                                                                                                                                                                                                                              |
|                                                                                                                                                                                                                                           |            | +                     |   |  |  |   |  |  |   |  |  |   |                                                                                     |                                                                                                                                                                                                                                              |
|                                                                                                                                                                                                                                           |            | +                     |   |  |  |   |  |  |   |  |  |   |                                                                                     |                                                                                                                                                                                                                                              |
|                                                                                                                                                                                                                                           |            | -                     |   |  |  |   |  |  |   |  |  |   |                                                                                     |                                                                                                                                                                                                                                              |