THUNDERMAKER-III SIROCCO



1. Upper Grade Series

THUNDERMAKER-III SIROCCO is the up-graded series of the forerunner, THUNDERMAKER-II UNIVERSAL, having higher capacity and stronger engine starting performance. For this new series, THUNDERMAKER-III SIROCCO our Inner Lug High Density Super Strong Grid of the latest design, made of C-21 Special Alloy, Straight Connection Inter-Cell Welding and Low Impedance PE-Envelop Separator are employed. The ideal combination of these most advanced technologies has made it possible to achieve inhibition of internal impedance at extremely low level and extended service life to the maximum level for the same class of batteries. THUNDERMAKER-III SIROCCO, our ultimate MF Battery, always assures you one-strike starting and ever-comfy driving by its overwhelming power anywhere, anytime.

2. Long Life and Environment-Friendly

THUNDERMAKER-III SIROCCO has a semi-transparent milky white container, while all the other Sealed Type MF Batteries in the world are in black containers and black covers. You can always observe the electrolyte level from outside and, if the electrolyte level drops lower than the Lower Level Line, you can add water to THUNDERMAKER-III SIROCCO after opening the sealing caps. By adding water, the plates can be relieved from the risks of corrosion caused by dry-up of electrolyte and gain extended service life for certain period. It means you can use up the maximum life of THUNDERMAKER-III SIROCCO to the end, and finally you can be an environment-friendly driver helping minimizing wastage of still-usable batteries. Thus, THUNDERMAKER-III SIROCCO is so safe, so economical and so ecological. Those are unique and the extraordinary advantages of THUNDERMAKER-III SIROCCO that all the other Sealed Type MF Batteries in the world in black containers and black covers are never capable of

3. For All Japanese Passenger Cars

As one of the most reliable and prestigious battery manufacturers in Japan, we, THE FURUKAWA BATTERY CO., LTD., are supplying our products to most of major Japanese car manufacturers as Original Equipment (OE). Our THUNDERMAKER-III SIROCCO is manufactured in the same production lines that our OE batteries are manufactured, and shipped to the market under the strict quality control and punishing inspection in the same manner that we are carrying out on our OE batteries. You will see the most advanced technology and traditional craftsmanship of Japanese automotive battery and our company creed, to contribute both to customers and environment, are crystallized in this ultimate MF Battery, THUNDERMAKER-III SIROCCO.





Carefully read service manual before use the battery



For More Information, please contact



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FURUKAWA THUNDERMAKER-III

JAPAN TECHNOLOGY AND QUALTY











| Category of Sizes: | B19 | |
|----------------------------------|--------------|--------|
| External Overview | Dimensions | |
| | Length | 185mm |
| | Width | 125mm |
| | Height | 200mm |
| | Total Height | 227mm |
| JIS Model Number: | 44B19R | 44B19L |
| Weight | 10.0kg | |
| Acid Volume | 2.3ℓ | |
| Voltage | 12V | |
| Capacity(20HR) | 37Ah | |
| Reserve Capacity | 49min. | |
| SAE Cold Cranking Amperes(-18°C) | 310A | |

| Category of Sizes: | B24 | |
|----------------------------------|--------------|--------|
| | Dimensions | |
| 100 | Length | 236mm |
| External Overview | Width | 126mm |
| 1 1 1 mg | Height | 200mm |
| | Total Height | 227mm |
| JIS Model Number: | 60B24R | 60B24L |
| Weight | 12.7kg | |
| Acid Volume | 2.9ℓ | |
| Voltage | 12V | |
| Capacity(20HR) | 48Ah | |
| Reserve Capacity | 70min. | |
| SAE Cold Cranking Amperes(-18°C) | 405A | |

| Category of Sizes: | D: | 23 |
|----------------------------------|--------------|--------|
| External Overview | Dimensions | |
| | Length | 230mm |
| | Width | 169mm |
| | Height | 200mm |
| | Total Height | 225mm |
| JIS Model Number: | 80D23R | 80D23L |
| Weight | 16.6kg | |
| Acid Volume | 3.8ℓ | |
| Voltage | 12V | |
| Capacity(20HR) | 65Ah | |
| Reserve Capacity | 100min. | |
| SAE Cold Cranking Amperes(-18°C) | 500A | |
| II . | | |

| Category of Sizes: | D26 | |
|-----------------------------------|--------------|--------|
| External Overview | Dimensions | |
| | Length | 257mm |
| | Width | 170mm |
| | Height | 200mm |
| | Total Height | 225mm |
| JIS Model Number: | 90D26R | 90D26L |
| Weight | 18.9kg | |
| Acid Volume | 4.0ℓ | |
| Voltage | 12V | |
| Capacity (20HR) | 68Ah | |
| Reserve Capacity | 115min. | |
| SAE Cold Cranking Amperes (-18°C) | 550A | |

| Category of Sizes: | D31 | |
|-----------------------------------|--------------|---------|
| External Overview | Dimensions | |
| | Length | 304mm |
| | Width | 171mm |
| | Height | 200mm |
| | Total Height | 225mm |
| JIS Model Number: | 115D31R | 115D31L |
| Weight | 22.7kg | |
| Acid Volume | 4.8ℓ | |
| Voltage | 12V | |
| Capacity (20HR) | 82Ah | |
| Reserve Capacity | 141min. | |
| SAE Cold Cranking Amperes (-18°C) | 735A | |

Super Strong Grid made of C-21 Special Alloy

g empe c rosi co dt o r

Temperature condition in engine compertment has been becoming severer because of enhancing engine power. THNDERMAKER-III SIROCCO applys Super Strong Grid made of C-21 Special Alloy to adapt to the severer temperature condition. The grid has excellent performance for high temperature & corrosion resistance.

THNDERMAKER-III SIROCCO has around 2 times life compared to our standard calcium battery in 75°C JIS SHALLOW CYCLE







Around 2 times durability compared to Standard Calcium Grid

SAE Cold Cranking Amperes (-18°C)

The number of amperes a battery at -18°C) can deliver for 30 seconds and maintain at least 7.2 volts.

The time in minutes that a fully charged battery can deliver 25°C and maintain a terminal voltage equal to, or higher than, 10.5 volts.

The quantity of electricity (Ah) that a battery can deliver 20 hours rate current at 25°C and maintain a terminal voltage equal to, or higher than, 10.5 volts.



