# Load Banks

RARA manufactures load banks, ranging from small portable units for testing generators to multi-megawatt designs for larger applications. Regular load testing, along with correct battery maintenance, is the best way of ensuring the reliability of standby power systems. It is routine for all newly-installed generating sets to have a load test during the commissioning process in order to prove the performance of the set and all its ancillaries-cooling system, exhaust system, switchgear and protection schemes.

· Custom designed for your particular system
· Several stages of assembly depending on shipping needs
· Many sizes and applications available

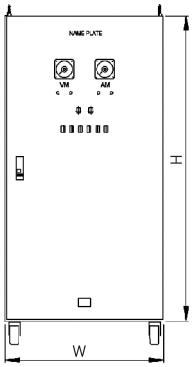


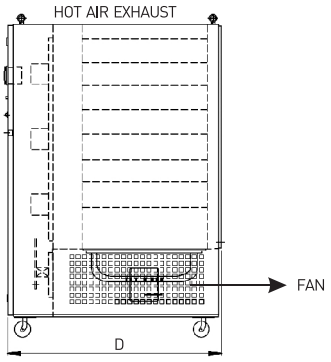
## GENERAL SPECIFICATIONS

| Model | Rated Power | Load Steps | | Approx. Weight | Cooling Fan Source |
|---|---|---|---|---|---|
| | | Minimum | Maximum | | |
| RLB-50V<br>RLB-50H | 50kW | 1kW | 20kW | 160 | 1 Phase<br>220V<br>60Hz<br><br>50Hz<br>Optional |
| RLB-100V<br>RLB-100H | 100kW | 1kW | 50kW | 220 | |
| RLB-200V<br>RLB-200H | 200kW | 5kW | 100kW | 350 | |
| RLB-300V<br>RLB-300H | 300kW | 5kW | 100kW | 480 | |
| RLB-400V<br>RLB-400H | 400kW | 5kW | 200kW | 530 | 3 Phase<br>380V<br>60Hz<br><br>50Hz<br>Optional |
| RLB-500V<br>RLB-500H | 500kW | 5kW | 200kW | 750 | |
| RLB-600V<br>RLB-600H | 600kW | 5kW | 300kW | 960 | |
| RLB-800V<br>RLB-800H | 800kW | 5kW | 300kW | 1350 | |
| RLB-1000V<br>RLB-1000H | 1000kW | 5kW | 500kW | 1740 | |
| RLB-1500V<br>RLB-1500H | 1500kW | 5kW | 500kW | 2320 | |
| RLB-2000V<br>RLB-2000H | 2000kW | 5kW | 1000kW | 2850 | |
| RLB-2500V<br>RLB-2500H | 2500kW | 5kW | 1000kW | 3580 | |
| RLB-3000V<br>RLB-3000H | 3000kW | 5kW | 1000kW | 3970 | |


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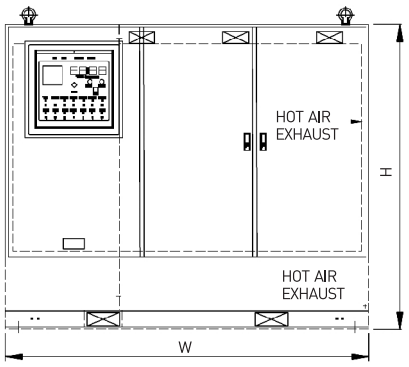
## DIMENSIONS [mm] FOR INDOOR TYPES

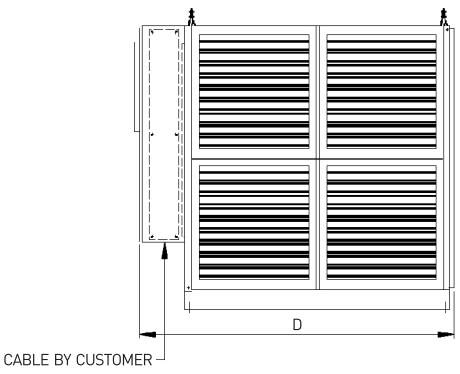



| Model | Dimensions [mm] | | |
|---|---|---|---|
| | W | D | H |
| RLB-50V | 600 | 800 | 1000 |
| RLB-100V | 800 | 1050 | 1200 |
| RLB-200V | 800 | 1050 | 1200 |
| RLB-300V | 1000 | 1250 | 1650 |
| RLB-400V | 1000 | 1250 | 1650 |
| RLB-500V | 1650 | 1300 | 1800 |
| RLB-600V | 1650 | 1300 | 1800 |
| RLB-800V | 2200 | 1600 | 2350 |
| RLB-1000V | 2200 | 1600 | 2350 |
| RLB-1500V | 2200 | 1600 | 2350 |
| RLB-2000V | 2200 | 1600 | 2350 |
| RLB-2500V | 20" Container | | |
| RLB-3000V | 20" Container | | |

## DIMENSIONS [mm] FOR OUTDOOR TYPES




| Model | Dimensions [mm] | | |
|---|---|---|---|
| | W | D | H |
| RLB-50H | 1000 | 600 | 700 |
| RLB-100H | 1200 | 1000 | 800 |
| RLB-200H | 1600 | 1000 | 950 |
| RLB-300H | 1850 | 1200 | 1200 |
| RLB-400H | 1850 | 1200 | 1200 |
| RLB-500H | 1900 | 1300 | 1700 |
| RLB-600H | 1900 | 1300 | 1700 |
| RLB-800H | 2000 | 1500 | 2000 |
| RLB-1000H | 2600 | 1500 | 2150 |
| RLB-1500H | 2800 | 1500 | 2150 |
| RLB-2000H | 3000 | 2200 | 2350 |
| RLB-2500H | 20" Container | | |
| RLB-3000H | 20" Container | | |

## LOAD BANK DERATING

| 480V | 440V | | 380V | | 220V | |
|---|---|---|---|---|---|---|
| 1100kW | 924kW | 1212A | 689kW | 1047A | 231kW | 606A |
| 1000kW | 840kW | 1102A | 627kW | 953A | 210kW | 551A |
| 800kW | 672kW | 882A | 501kW | 761A | 168kW | 441A |
| 600kW | 504kW | 661A | 376kW | 571A | 126kW | 331A |
| 500kW | 420kW | 551A | 313kW | 476A | 105kW | 276A |
| 200kW | 168kW | 220A | 125kW | 190A | 42kW | 110A |
| 100kW | 84kW | 110A | 63kW | 96A | 21kW | 55A |
| 50kW | 42kW | 55A | 31kW | 47A | 10.5kW | 27.5A |
| 30kW | 25.2kW | 33A | 19kW | 29A | 6.3kW | 16.5A |
| 10kW | 8.4kW | 11A | 6kW | 9.1A | 2.1kW | 5.5A |
| 5kW | 4.2kW | 5.5A | 3kW | 4.5A | 1.05kW | 2.75A |
| 2KkW | 1.68kW | 2.2A | 1.25kW | 1.9A | 0.42kW | 1.1A |

## ADDITIONAL INFORMATION

1. The V type is an indoor model.
2. The H type is both indoor and outdoor.
3. Options: Main switch, Digital meter, Air circuit breaker, Connection cable.
4. Applied voltage: 3 phase, 480V, 60Hz.(220V, 380V, 440V, 600V, 3.3KV, 6.6KV are also available)
5. Environmental Conditions: Ambient temperature lower than 40C; Altitude less than 1000m.
6. Basic accessories are as follows:

·Step load on-off switch
·Magnetic contactor
·Control MCCB(1 phase, 220V, 60Hz)
·Alarm signal - pilot lamp
·Emergency stop button
·Reset button
·Fan failure protection
·Over temperature protection
·Cooling fan

## ORDERING INFORMATION AND NOTES

| RLB | 1000 | V | HW | 480 | AT | J |
|---|---|---|---|---|---|---|
| Model # | Power Capacity | V: Vertical = indoor<br>H: Horizontal = outdoor | Element Type | Applied Voltage | AT: AC, 3Φ<br>AS: AC, 1Φ<br>D: DC | Tolerance |


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