

# LARGE ALUMINUM ELECTROLYTIC CAPACITORS

**EV** High ripple Current, High Reliability Series



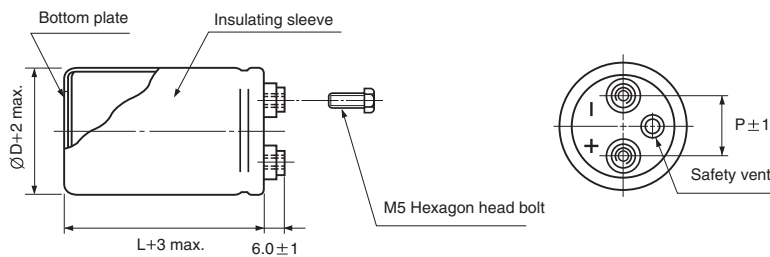
- High ripple current compared with CU series
- Long life guaranteed for 5000 hours load life at 105°C
- Suited for the general-purpose inverter
- Complied to the RoHS directive



| Item   | Characteristics  |                                   |
|--|--|-----------------------------------|
| Operating temperature range  | -25 ~ +105°C   |                                   |
| Capacitance tolerance  | ±20% at 120Hz, 20°C  |                                   |
| Leakage current max.   | $I = 3\sqrt{CV}$ (μA) (after 5 minutes)  |                                   |
| Dissipation factor max.  | 0.20 max. at 120Hz, 20°C   |                                   |
| Load life (after application of the rated voltage for 5000 hours at 105°C) | Leakage current  | Less than specified value         |
|  | Capacitance change   | Within ±20% of initial value      |
|  | tanδ   | Less than 200% of specified value |
| 500WV products are for 2000hours   |  |                                   |
| Shelf life (at 105°C)  | After 1000 hours no load test, leakage current, capacitance and tanδ are same as load life value. The measurement shall be performed at 20°C by the KS C IEC 60384 - 4 |                                   |

## DRAWING

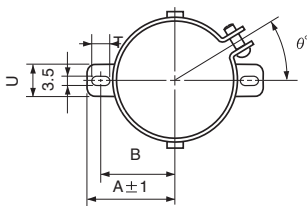
Unit : mm



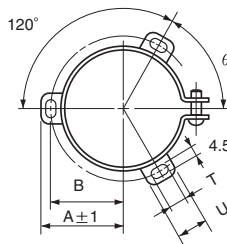
### TWO LEGS ANGLE SIZE TABLE

| ØD   | B    | A    | T | U  | θ° | P    |
|------|------|------|---|----|----|------|
| 51   | 33.6 | 39.9 | 6 | 14 | 30 | 22   |
| 63.5 | 40.8 | 46.8 | 6 | 14 | 30 | 28.6 |

### TWO LEGS ANGLE



### THREE LEGS ANGLE



### THREE LEGS ANGLE SIZE TABLE

| ØD   | B    | A    | T | U  | θ° | P    |
|------|------|------|---|----|----|------|
| 51   | 32.9 | 38.9 | 7 | 12 | 60 | 22   |
| 63.5 | 38.4 | 45.3 | 7 | 14 | 60 | 28.6 |
| 76.2 | 44.5 | 51.5 | 8 | 16 | 60 | 31.8 |
| 89   | 50.8 | 61   | 8 | 16 | 60 | 31.8 |

## DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

| WV<br>Item<br>μF | 400          |  | 450          |  | 500          |  |
|------------------|--------------|--|--------------|--|--------------|--|
|                  | ØD×L<br>(mm) | Ripple Current<br>(A rms)<br>105°C 120Hz | ØD×L<br>(mm) | Ripple Current<br>(A rms)<br>105°C 120Hz | ØD×L<br>(mm) | Ripple Current<br>(A rms)<br>105°C 120Hz |
| 1000             |              |  |              |  | 51 × 130     | 6.3                                      |
| 1500             |              |  |              |  | 63.5 × 110   | 8.1                                      |
| 2200             | 63.5 × 110   | 11.6                                     | 63.5 × 115   | 12.1                                     | 76.2 × 130   | 10.1                                     |
| 2700             | 63.5 × 115   | 13.7                                     | 63.5 × 130   | 14.3                                     | 76.2 × 140   | 12.6                                     |
| 3300             | 63.5 × 130   | 16.1                                     | 76.2 × 130   | 16.9                                     | 76.2 × 150   | 14.3                                     |
| 3900             | 63.5 × 140   | 18.1                                     | 76.2 × 140   | 20.5                                     | 89 × 160     | 15.0                                     |
| 4700             | 76.2 × 130   | 21.2                                     | 76.2 × 150   | 22.6                                     | 89 × 160     | 16.5                                     |
| 5600             | 76.2 × 150   | 24.3                                     | 76.2 × 160   | 26.8                                     |              |  |
| 6800             | 89 × 150     | 27.1                                     | 89 × 150     | 28.2                                     |              |  |

## FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

| WV        | Frequency | 50Hz | 120Hz | 300Hz | 1kHz | 3kHz |
|-----------|-----------|------|-------|-------|------|------|
| 400 ~ 500 |           | 0.8  | 1.0   | 1.1   | 1.3  | 1.4  |