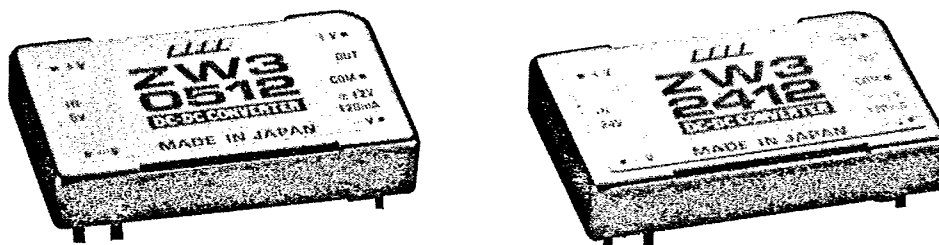


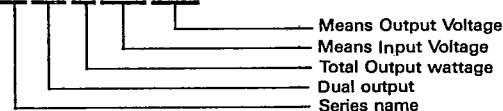
# Z SERIES DC-DC CONVERTER **ZW3** 3W Dual output

**SUPERTEK**


Z series DC-DC converter is designed for Small size, high reliability and high quality use.

- Isolated output.
- Over current protection.
- Small and compact size.

## NAMING

**ZW30512**


## SPECIFICATIONS

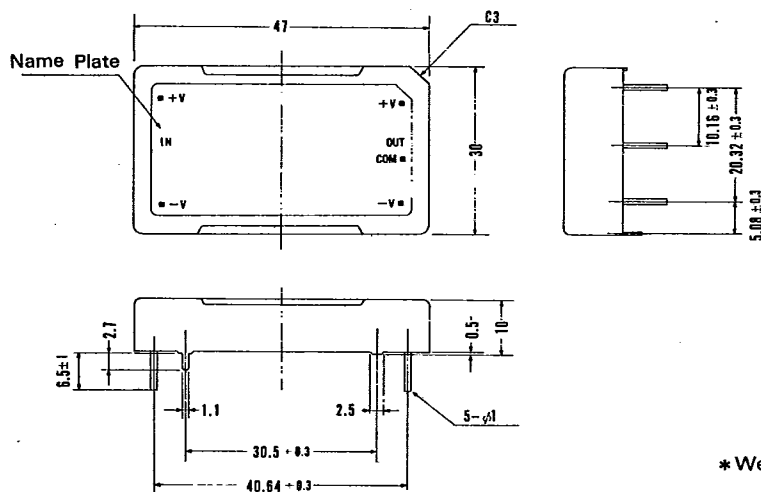
|                       | MODEL                             | ZW30512                                                                         | ZW30515 | ZW31212   | ZW31215 | ZW32412   | ZW32415 |
|-----------------------|-----------------------------------|---------------------------------------------------------------------------------|---------|-----------|---------|-----------|---------|
| INPUT                 | VOLTAGE (V)                       | 5(4.5~6.0)                                                                      |         | 12(10~15) |         | 24(20~30) |         |
|                       | EFFICIENCY (%)                    | 65typ                                                                           |         | 70typ     |         | 74typ     |         |
| OUTPUT                | VOLTAGE (V)                       | ±12                                                                             | ±15     | ±12       | ±15     | ±12       | ±15     |
|                       | CURRENT (A)                       | 0.12                                                                            | 0.1     | 0.12      | 0.1     | 0.12      | 0.1     |
|                       | REGULATION LINE                   | 60max                                                                           | 75max   | 60max     | 75max   | 60max     | 75max   |
|                       | REGULATION LOAD                   | 600max                                                                          | 750max  | 600max    | 750max  | 600max    | 750max  |
|                       | RIPPLE (mVp-p)                    | 120max                                                                          | 120max  | 120max    | 120max  | 120max    | 120max  |
|                       | RIPPLE NOISE (mVp-p)              | 120max                                                                          | 120max  | 120max    | 120max  | 120max    | 120max  |
|                       | TEMPERATURE (mV) DRIFTING 0~+50°C | 120max                                                                          | 150max  | 120max    | 150max  | 120max    | 150max  |
|                       | OUTPUT VOLTAGE SETTING (%)        | ±5 max of nominal Voltage                                                       |         |           |         |           |         |
| PROTECTION CIRCUIT    |                                   | Works over 105% of rating and recovers automatically                            |         |           |         |           |         |
| ELECTRICALLY ISOLATED | HIGH POT.                         | Input-Output, Input-Case, Output-Case AC500V 1minute (At room Temp. and Humid.) |         |           |         |           |         |
|                       | ISOLATION                         | Input-Output, Input-Case, Output-Case DC500V 50M ohm (At room Temp. and Humid.) |         |           |         |           |         |
| ENVIRONMENT           | OPERATING TEMP. AND HUMID.        | 0~+50°C, 20~90%RH (Non condensing)                                              |         |           |         |           |         |
|                       | STORAGE TEMP. AND HUMID.          | -20~+75°C, 20~90%RH (Non condensing)                                            |         |           |         |           |         |
|                       | VIBRATION                         | 10~55Hz and 2G 3minutes periods. 30 minutes along X, Y and Z directions.        |         |           |         |           |         |
|                       | IMPACT                            | 20G 11ms, once each X, Y, Z directions.                                         |         |           |         |           |         |

\* No parallel operation is permitted.

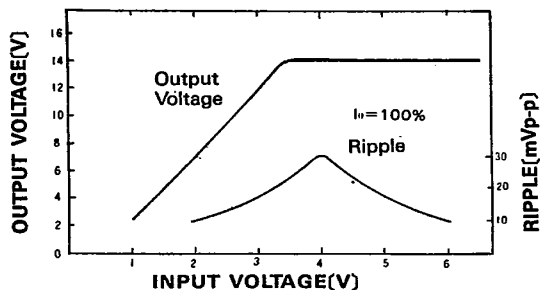
# ZW3

**SUPERTEK**

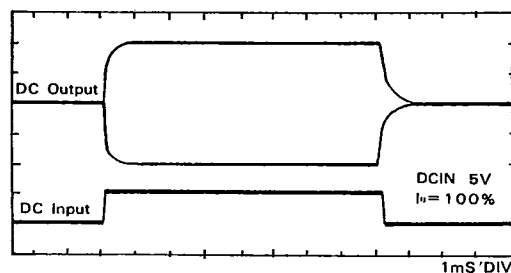
## EXTERNAL VIEW



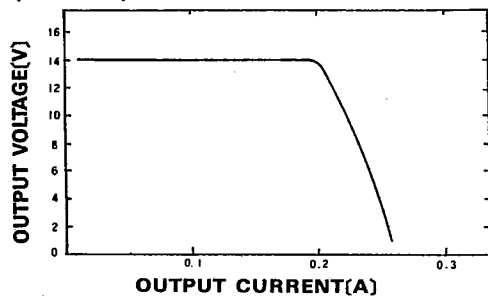
## STATIC CHARACTERISTICS (ZW30515)



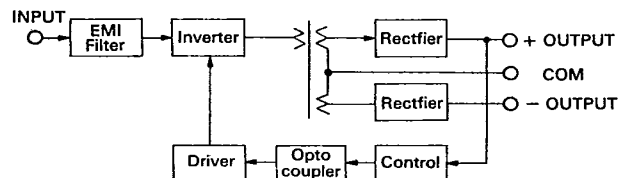
## RISE TIME & FALL TIME (ZW30515)



## OUTPUT CURRENT V.S. OUTPUT VOLTAGE (ZW30515)



## BLOCK DIAGRAM



\* Z series switching power supply is warranted for one year period.  
\* Above all specifications are subject to change for improvement without notice.