



- 1 Series name
- 2 Dual output
- 3 Output wattage
- 4 Input voltage
- 5 Output voltage

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| MODEL | ZUW60512 | ZUW60515 | ZUW61212 | ZUW61215 | ZUW62412 | ZUW62415 | ZUW64812 | ZUW64815 |
|-----------------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| MAX OUTPUT WATTAGE[W] | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 |
| DC OUTPUT | VOLTAGE[V] | ± 12 or +24 | ± 15 or +30 | ± 12 or +24 | ± 15 or +30 | ± 12 or +24 | ± 15 or +30 | ± 12 or +24 |
| | CURRENT[A] | 0.25 | 0.20 | 0.25 | 0.20 | 0.25 | 0.20 | 0.25 |

SPECIFICATIONS

Output pins can be connected in series to make a 24V/30V output.

| | MODEL | ZUW60512 | ZUW60515 | ZUW61212 | ZUW61215 | ZUW62412 | ZUW62415 | ZUW64812 | ZUW64815 | |
|---------------------------|--------------------------------------|--|---------------|---------------|---------------|---------------|---------------|---------------|------------|--|
| INPUT | VOLTAGE[V] | DC4.5 - 9 | | DC9 - 18 | | DC18 - 36 | | DC36 - 72 | | |
| | CURRENT[A] | *1 1.60typ | 1.60typ | 0.65typ | 0.65typ | 0.33typ | 0.33typ | 0.17typ | 0.17typ | |
| | EFFICIENCY[%] | *1 75typ | 75typ | 77typ | 77typ | 77typ | 77typ | 77typ | 77typ | |
| OUTPUT | VOLTAGE[V] | ± 12 (+24) | ± 15 (+30) | ± 12 (+24) | ± 15 (+30) | ± 12 (+24) | ± 15 (+30) | ± 12 (+24) | ± 15 (+30) | |
| | CURRENT[A] | 0.25 | 0.20 | 0.25 | 0.20 | 0.25 | 0.20 | 0.25 | 0.20 | |
| | LINE REGULATION[mV] | 60max | 75max | 60max | 75max | 60max | 75max | 60max | 75max | |
| | LOAD REGULATION[mV] | 600max | 750max | 600max | 750max | 600max | 750max | 600max | 750max | |
| | RIPPLE[mVp-p] | *2 120max | 120max | 120max | 120max | 120max | 120max | 120max | 120max | |
| | RIPPLE NOISE[mVp-p] | *2 150max | 150max | 150max | 150max | 150max | 150max | 150max | 150max | |
| | TEMPERATURE REGULATION[mV] | -20 to +55°C | 150max | 180max | 150max | 180max | 150max | 180max | 150max | |
| | DRIFT[mV] | *3 50max | 60max | 50max | 60max | 50max | 60max | 50max | 60max | |
| | START-UP TIME[ms] | 20max (Minimum input, Io=100%) | | | | | | | | |
| | OUTPUT VOLTAGE ADJUSTMENT RANGE[V] | Fixed | | | | | | | | |
| OUTPUT VOLTAGE SETTING[V] | 11.40 - 12.60 | 14.25 - 15.75 | 11.40 - 12.60 | 14.25 - 15.75 | 11.40 - 12.60 | 14.25 - 15.75 | 11.40 - 12.60 | 14.25 - 15.75 | | |
| PROTECTION CIRCUIT | OVERCURRENT PROTECTION | Works over 105% of rating and recovers automatically | | | | | | | | |
| ISOLATION | INPUT-OUTPUT | AC500V 1minute, Cutoff current = 10mA, DC500V 50MW min (20± 15°C) | | | | | | | | |
| | INPUT-CASE | AC500V 1minute, Cutoff current = 10mA, DC500V 50MW min (20± 15°C) | | | | | | | | |
| | OUTPUT-CASE | AC500V 1minute, Cutoff current = 10mA, DC500V 50MW min (20± 15°C) | | | | | | | | |
| ENVIRONMENT | OPERATING TEMP., HUMID. AND ALTITUDE | -20 to +71°C, 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max | | | | | | | | |
| | STORAGE TEMP., HUMID. AND ALTITUDE | -40 to +85°C, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max | | | | | | | | |
| | VIBRATION | 10 - 55Hz, 98.0m/s ² (10G), 3minutes period, 60minutes each along X, Y and Z axis | | | | | | | | |
| | IMPACT | 490.3m/s ² (50G), 11ms, once each X, Y and Z axis | | | | | | | | |
| SAFETY | AGENCY APPROVALS | UL1950, EN60950, CSA C22.2 No.950 Complies with IEC60950 | | | | | | | | |
| OTHERS | CASE SIZE/WEIGHT | 44.5×7×28mm (W×H×D) / 25g max | | | | | | | | |
| | COOLING METHOD | Convection | | | | | | | | |

* 1 Rated input 5V, 12V, 24V or 48V DC, Io=100%.

* 2 Measured by 20MHz oscilloscope.

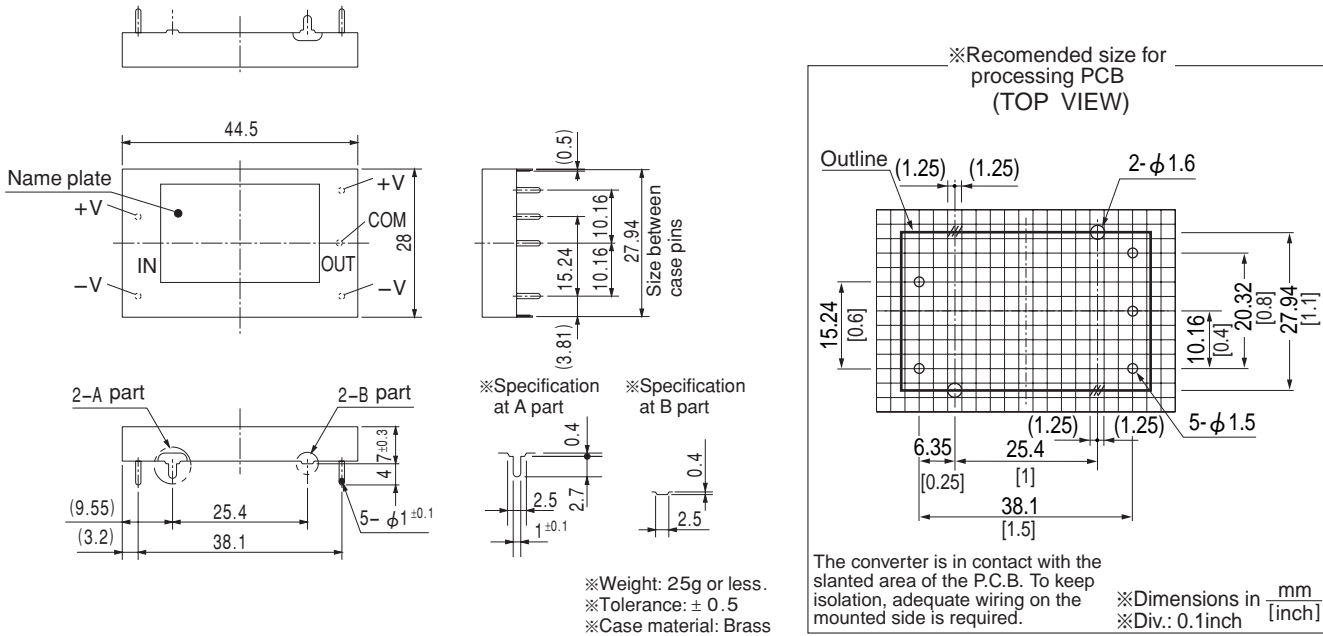
* 3 The drift is a change at 25°C of ambient temperature and 30 minutes - 8 hours after the in

put voltage applied at rated input/output.

* The output specification is at ± 12V and ± 15V.

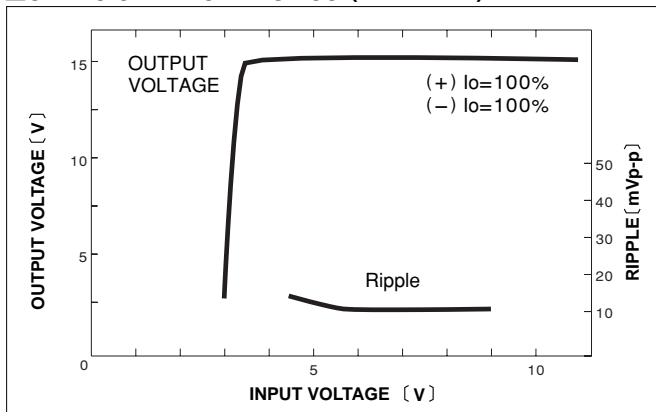
* Series/Parallel operation with other model is not possible.

External view

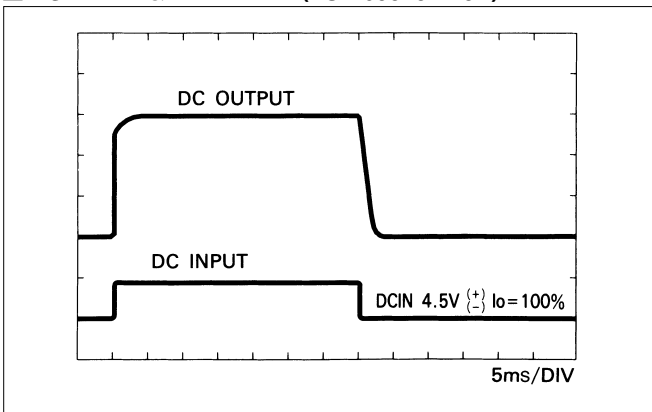


Performance data

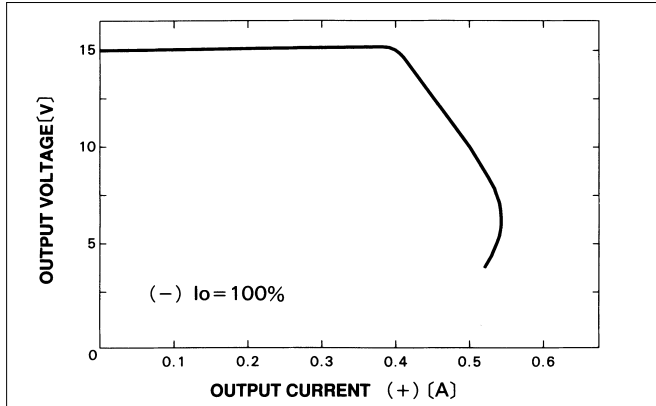
■ STATIC CHARACTERISTICS (ZUW60515)



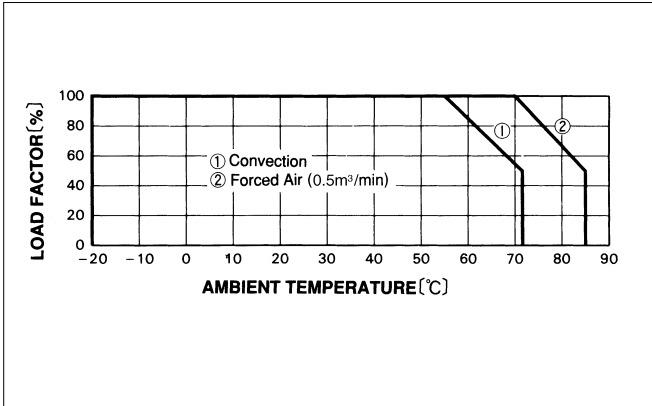
■ RISE TIME & FALL TIME (ZUW60515:+15V)



■ OVERCURRENT CHARACTERISTICS (ZUW60515)



■ DERATING CURVE



ZU/ZT