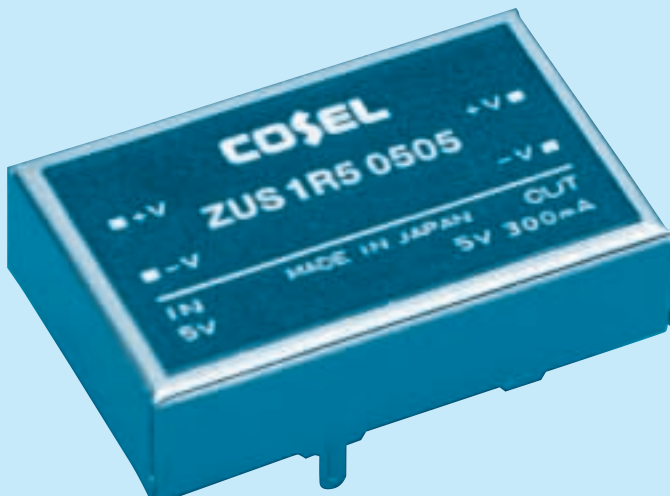




- ① Series name  
② Single output  
③ Output wattage  
④ Input voltage  
⑤ Output voltage

| MODEL                 | ZUS1R50505 | ZUS1R50512 | ZUS1R50515 | ZUS1R51205 | ZUS1R51212 | ZUS1R51215 | ZUS1R52405 | ZUS1R52412 | ZUS1R52415 | ZUS1R54805 | ZUS1R54812 | ZUS1R54815 |
|-----------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| MAX OUTPUT WATTAGE[W] | 1.50       | 1.56       | 1.50       | 1.50       | 1.56       | 1.50       | 1.50       | 1.56       | 1.50       | 1.50       | 1.56       | 1.50       |
| DC OUTPUT             | VOLTAGE[V] | 5          | 12         | 15         | 5          | 12         | 15         | 5          | 12         | 15         | 5          | 12         |
|                       | CURRENT[A] | 0.30       | 0.13       | 0.10       | 0.30       | 0.13       | 0.10       | 0.30       | 0.13       | 0.10       | 0.30       | 0.13       |

## SPECIFICATIONS

|                    | MODEL                                | ZUS1R50505                                                                                   | ZUS1R50512    | ZUS1R50515    | ZUS1R51205  | ZUS1R51212    | ZUS1R51215    | ZUS1R52405  | ZUS1R52412    | ZUS1R52415    | ZUS1R54805  | ZUS1R54812    | ZUS1R54815    |
|--------------------|--------------------------------------|----------------------------------------------------------------------------------------------|---------------|---------------|-------------|---------------|---------------|-------------|---------------|---------------|-------------|---------------|---------------|
| INPUT              | VOLTAGE[V]                           | DC4.5 - 9                                                                                    |               |               | DC9 - 18    |               |               | DC18 - 36   |               |               | DC36 - 72   |               |               |
|                    | CURRENT[A]                           | *1 0.441typ                                                                                  | 0.459typ      | 0.441typ      | 0.176typ    | 0.183typ      | 0.176typ      | 0.088typ    | 0.092typ      | 0.088typ      | 0.043typ    | 0.045typ      | 0.043typ      |
|                    | EFFICIENCY[%]                        | *1 68typ                                                                                     | 68typ         | 68typ         | 71typ       | 71typ         | 71typ         | 71typ       | 71typ         | 71typ         | 73typ       | 73typ         | 73typ         |
| OUTPUT             | VOLTAGE[V]                           | 5                                                                                            | 12            | 15            | 5           | 12            | 15            | 5           | 12            | 15            | 5           | 12            | 15            |
|                    | CURRENT[A]                           | 0.30                                                                                         | 0.13          | 0.10          | 0.30        | 0.13          | 0.10          | 0.30        | 0.13          | 0.10          | 0.30        | 0.13          | 0.10          |
|                    | LINE REGULATION[mV]                  | 20max                                                                                        | 48max         | 60max         | 20max       | 48max         | 60max         | 20max       | 48max         | 60max         | 20max       | 48max         | 60max         |
|                    | LOAD REGULATION[mV]                  | 40max                                                                                        | 100max        | 120max        | 40max       | 100max        | 120max        | 40max       | 100max        | 120max        | 40max       | 100max        | 120max        |
|                    | RIPPLE[mVp-p]                        | *2 80max                                                                                     | 120max        | 120max        | 80max       | 120max        | 120max        | 80max       | 120max        | 120max        | 80max       | 120max        | 120max        |
|                    | RIPPLE NOISE[mVp-p]                  | *2 120max                                                                                    | 150max        | 150max        | 120max      | 150max        | 150max        | 120max      | 150max        | 150max        | 120max      | 150max        | 150max        |
|                    | TEMPERATURE REGULATION[mV]           | -20 to +55°C                                                                                 | 50max         | 150max        | 180max      | 50max         | 150max        | 180max      | 50max         | 150max        | 180max      | 50max         | 150max        |
|                    | DRIFT[mV]                            | *3 20max                                                                                     | 48max         | 60max         | 20max       | 48max         | 60max         | 20max       | 48max         | 60max         | 20max       | 48max         | 60max         |
|                    | START-UP TIME[ms]                    | 20max (Minimum input, Io=100%)                                                               |               |               |             |               |               |             |               |               |             |               |               |
|                    | OUTPUT VOLTAGE ADJUSTMENT RANGE[V]   | Fixed                                                                                        |               |               |             |               |               |             |               |               |             |               |               |
|                    | OUTPUT VOLTAGE SETTING[V]            | 4.85 - 5.25                                                                                  | 11.40 - 12.60 | 14.25 - 15.75 | 4.85 - 5.25 | 11.40 - 12.60 | 14.25 - 15.75 | 4.85 - 5.25 | 11.40 - 12.60 | 14.25 - 15.75 | 4.85 - 5.25 | 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 50MΩ min (20±15°C)                             |               |               |             |               |               |             |               |               |             |               |               |
|                    | INPUT-CASE                           | AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C)                             |               |               |             |               |               |             |               |               |             |               |               |
|                    | OUTPUT-CASE                          | AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ 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 <sup>2</sup> (10G), 3minutes period, 60minutes each along X, Y and Z axis |               |               |             |               |               |             |               |               |             |               |               |
|                    | IMPACT                               | 490.3m/s <sup>2</sup> (50G), 11ms, once each X, Y and Z axis                                 |               |               |             |               |               |             |               |               |             |               |               |
| SAFETY             | AGENCY APPROVALS                     | UL60950-1, EN60950-1, EN50178, CSA C22.2 No.60950-1 Complies with IEC60950-1                 |               |               |             |               |               |             |               |               |             |               |               |
| OTHERS             | CASE SIZE/WEIGHT                     | 27.5×7×18mm (W×H×D) / 10g max                                                                |               |               |             |               |               |             |               |               |             |               |               |
|                    | COOLING METHOD                       | Convection                                                                                   |               |               |             |               |               |             |               |               |             |               |               |

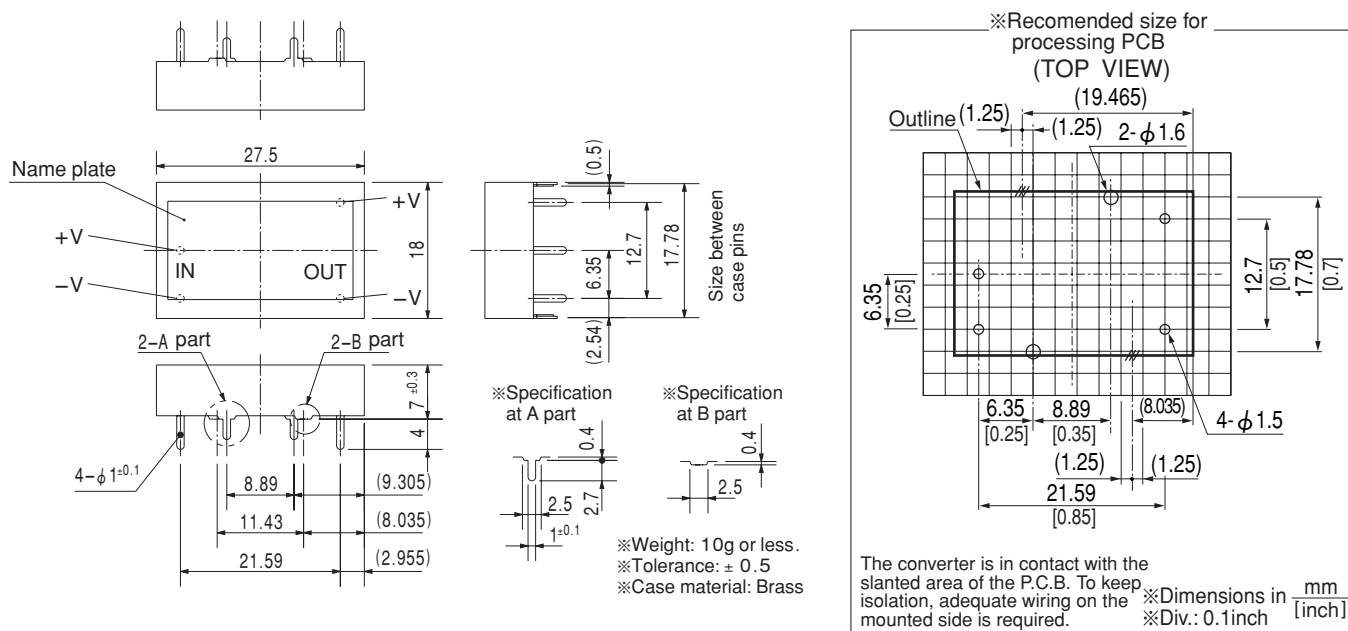
\*1 Rated input 5V, 12V, 24V or 48V DC Io=100%.

\*2 Measured by 20MHz oscilloscope.

\*3 The drift is a change at 25°C of ambient temperature and 30 minutes - 8 hours after the input voltage applied at rated input/output.

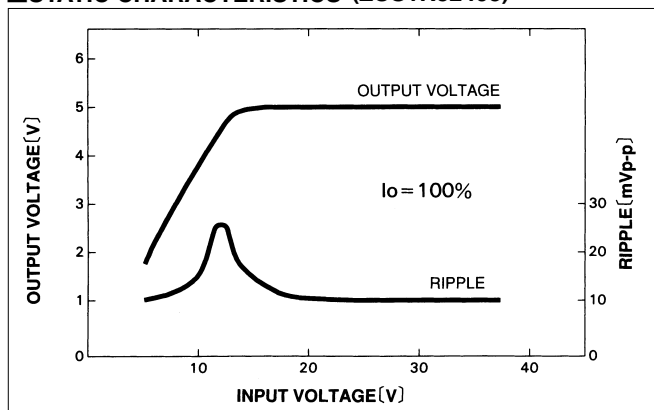
\* Series/Parallel operation with other model is not possible.

## External view

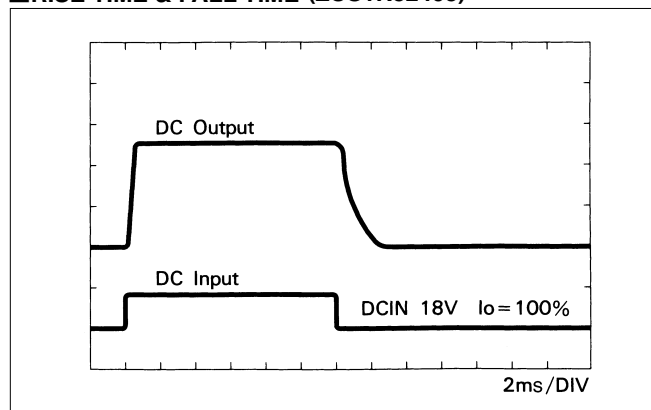


## Performance data

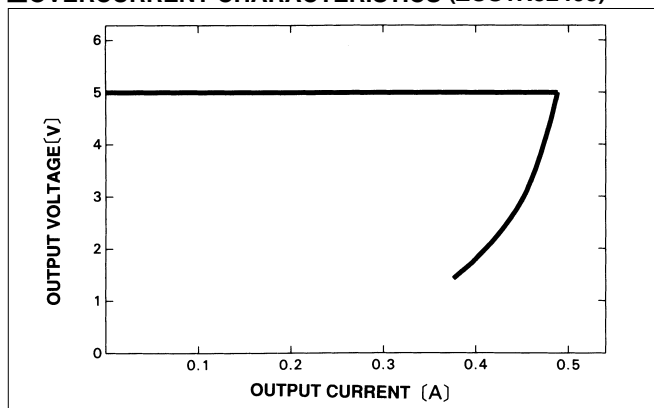
## ■ STATIC CHARACTERISTICS (ZUS1R52405)



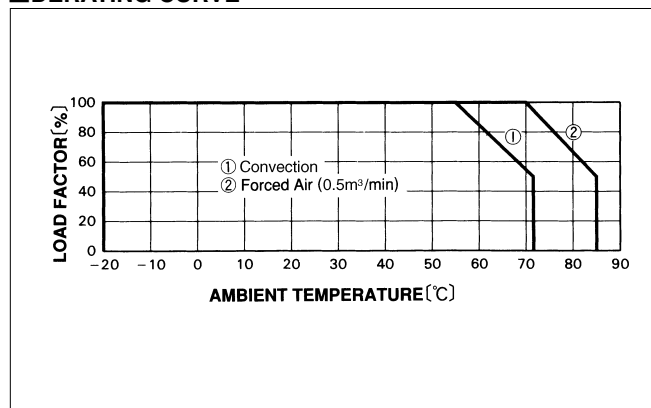
### ■ RISE TIME & FALL TIME (ZUS1R52405)

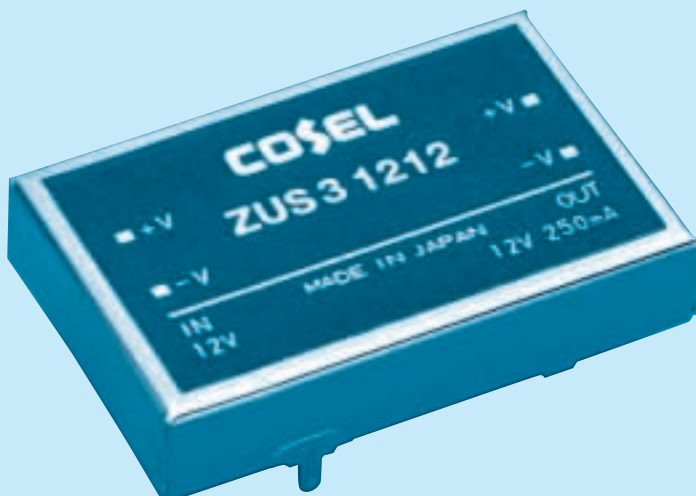


## ■ OVERCURRENT CHARACTERISTICS (ZUS1R52405)



## ■ DERATING CURVE





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

| MODEL                 | ZUS30505   | ZUS30512 | ZUS30515 | ZUS31205 | ZUS31212 | ZUS31215 | ZUS32405 | ZUS32412 | ZUS32415 | ZUS34805 | ZUS34812 | ZUS34815 |
|-----------------------|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| MAX OUTPUT WATTAGE[W] | 3          | 3        | 3        | 3        | 3        | 3        | 3        | 3        | 3        | 3        | 3        | 3        |
| DC OUTPUT             | VOLTAGE[V] | 5        | 12       | 15       | 5        | 12       | 15       | 5        | 12       | 15       | 5        | 12       |
|                       | CURRENT[A] | 0.60     | 0.25     | 0.20     | 0.60     | 0.25     | 0.20     | 0.60     | 0.25     | 0.20     | 0.60     | 0.25     |

## SPECIFICATIONS

|                    | MODEL                                | ZUS30505                                                                                     | ZUS30512 | ZUS30515 | ZUS31205 | ZUS31212 | ZUS31215 | ZUS32405  | ZUS32412 | ZUS32415 | ZUS34805  | ZUS34812 | ZUS34815 |
|--------------------|--------------------------------------|----------------------------------------------------------------------------------------------|----------|----------|----------|----------|----------|-----------|----------|----------|-----------|----------|----------|
| INPUT              | VOLTAGE[V]                           | DC4.5 - 9                                                                                    |          |          | DC9 - 18 |          |          | DC18 - 36 |          |          | DC36 - 72 |          |          |
|                    | CURRENT[A]                           | *1 0.896typ                                                                                  | 0.857typ | 0.857typ | 0.357typ | 0.338typ | 0.338typ | 0.176typ  | 0.167typ | 0.167typ | 0.088typ  | 0.082typ | 0.082typ |
|                    | EFFICIENCY[%]                        | *1 67typ                                                                                     | 70typ    | 70typ    | 70typ    | 74typ    | 74typ    | 71typ     | 75typ    | 75typ    | 71typ     | 76typ    | 76typ    |
| OUTPUT             | VOLTAGE[V]                           | 5                                                                                            | 12       | 15       | 5        | 12       | 15       | 5         | 12       | 15       | 5         | 12       | 15       |
|                    | CURRENT[A]                           | 0.60                                                                                         | 0.25     | 0.20     | 0.60     | 0.25     | 0.20     | 0.60      | 0.25     | 0.20     | 0.60      | 0.25     | 0.20     |
|                    | LINE REGULATION[mV]                  | 20max                                                                                        | 48max    | 60max    | 20max    | 48max    | 60max    | 20max     | 48max    | 60max    | 20max     | 48max    | 60max    |
|                    | LOAD REGULATION[mV]                  | 40max                                                                                        | 100max   | 120max   | 40max    | 100max   | 120max   | 40max     | 100max   | 120max   | 40max     | 100max   | 120max   |
|                    | RIPPLE[mVp-p]                        | *2 80max                                                                                     | 120max   | 120max   | 80max    | 120max   | 120max   | 80max     | 120max   | 120max   | 80max     | 120max   | 120max   |
|                    | RIPPLE NOISE[mVp-p]                  | *2 120max                                                                                    | 150max   | 150max   | 120max   | 150max   | 150max   | 120max    | 150max   | 150max   | 120max    | 150max   | 150max   |
|                    | TEMPERATURE REGULATION[mV]           | -20 to +55°C                                                                                 | 50max    | 150max   | 180max   | 50max    | 150max   | 180max    | 50max    | 150max   | 180max    | 50max    | 150max   |
|                    | DRIFT[mV]                            | *3 20max                                                                                     | 48max    | 60max    | 20max    | 48max    | 60max    | 20max     | 48max    | 60max    | 20max     | 48max    | 60max    |
|                    | START-UP TIME[ms]                    | 20max (Minimum input, Io=100%)                                                               |          |          |          |          |          |           |          |          |           |          |          |
|                    | OUTPUT VOLTAGE ADJUSTMENT RANGE[V]   | Fixed                                                                                        |          |          |          |          |          |           |          |          |           |          |          |
| PROTECTION CIRCUIT | OVERCURRENT PROTECTION               | Works over 105% of rating and recovers automatically                                         |          |          |          |          |          |           |          |          |           |          |          |
|                    | INPUT-OUTPUT                         | AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C)                             |          |          |          |          |          |           |          |          |           |          |          |
| ISOLATION          | INPUT-CASE                           | AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C)                             |          |          |          |          |          |           |          |          |           |          |          |
|                    | OUTPUT-CASE                          | AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ 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 <sup>2</sup> (10G), 3minutes period, 60minutes each along X, Y and Z axis |          |          |          |          |          |           |          |          |           |          |          |
|                    | IMPACT                               | 490.3m/s <sup>2</sup> (50G), 11ms, once each X, Y and Z axis                                 |          |          |          |          |          |           |          |          |           |          |          |
| SAFETY             | AGENCY APPROVALS                     | UL60950-1, EN60950-1, CSA C22.2 No.60950-1 Complies with IEC60950-1                          |          |          |          |          |          |           |          |          |           |          |          |
| OTHERS             | CASE SIZE/WEIGHT                     | 35×7×23mm (W×H×D) / 16g max                                                                  |          |          |          |          |          |           |          |          |           |          |          |
|                    | COOLING METHOD                       | Convection                                                                                   |          |          |          |          |          |           |          |          |           |          |          |

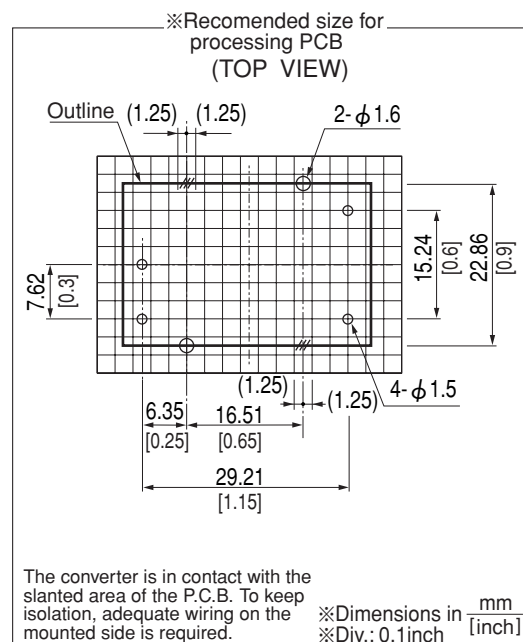
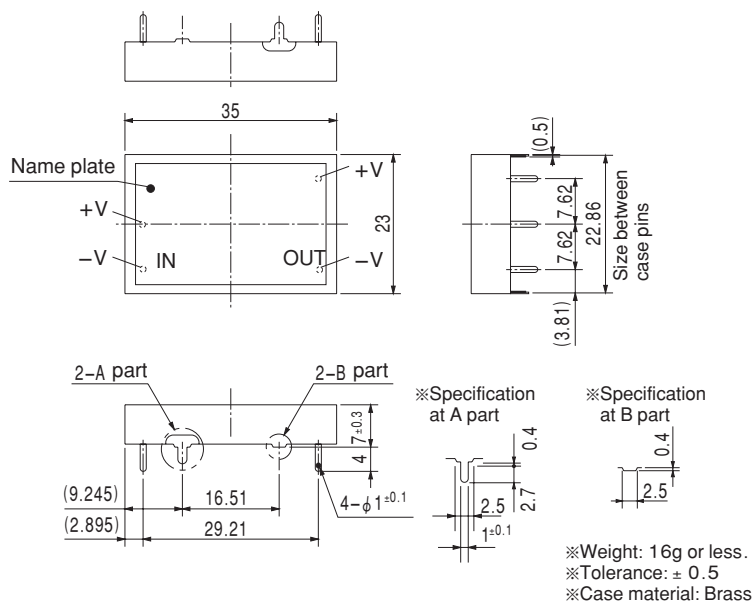
\*1 Rated input. 5V, 12V, 24V or 48V DC, Io=100%

\*2 Measured by 20MHz oscilloscope.

\*3 The drift is a change at 25°C of ambient temperature and 30 minutes - 8 hours after the input voltage applied at rated input/output.

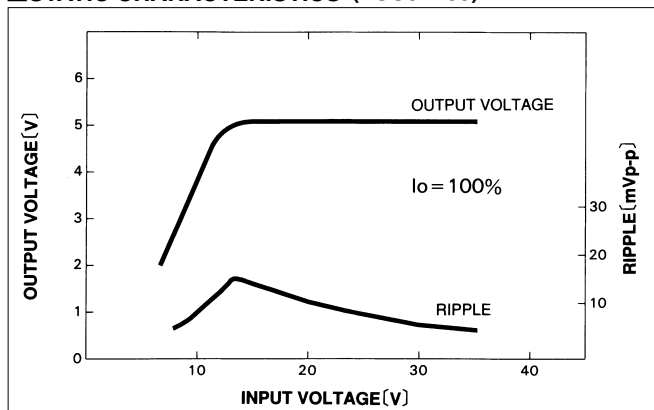
\* Series/Parallel operation with other model is not possible.

## External view

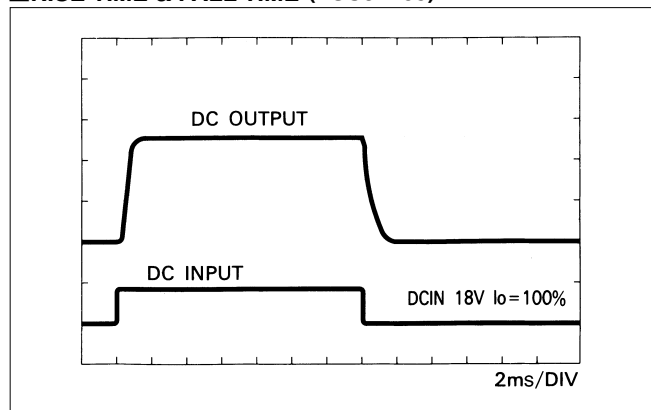


## Performance data

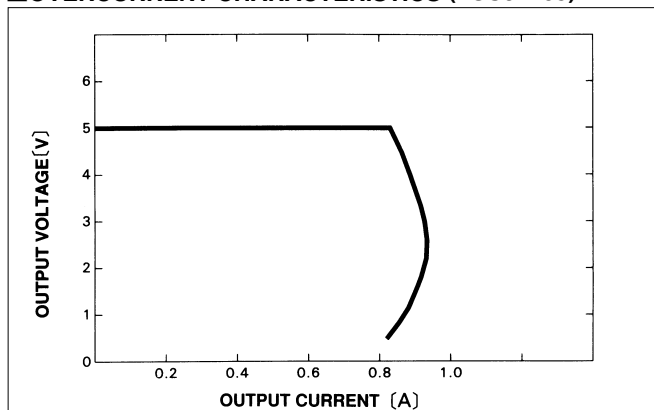
## ■STATIC CHARACTERISTICS (ZUS32405)



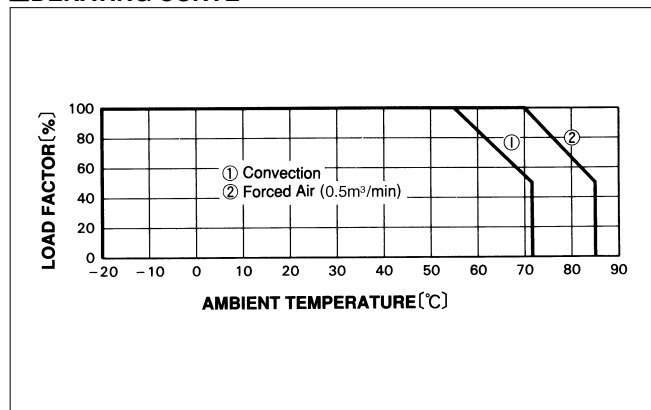
### ■ RISE TIME & FALL TIME (ZUS32405)

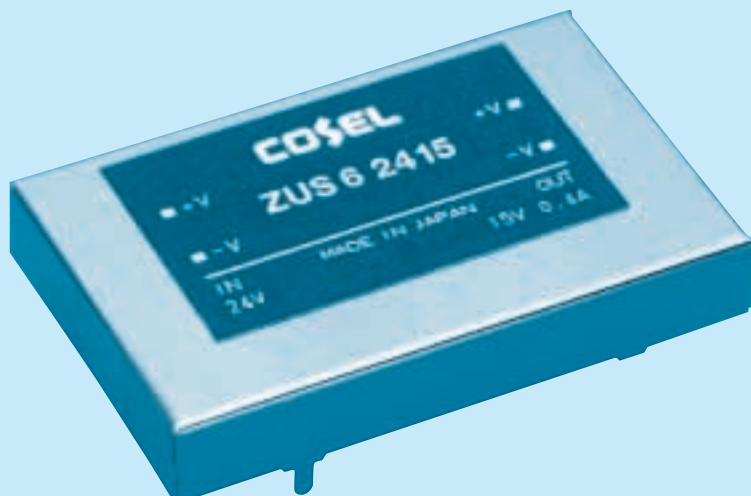


## ■ OVERCURRENT CHARACTERISTICS (ZUS32405)



## ■ DERATING CURVE





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

| MODEL                 |            | ZUS6053R3 | ZUS60505 | ZUS60512 | ZUS60515 | ZUS61205 | ZUS61212 | ZUS61215 | ZUS62405 | ZUS62412 | ZUS62415 | ZUS6483R3 | ZUS64805 | ZUS64812 | ZUS64815 |
|-----------------------|------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|
| MAX OUTPUT WATTAGE[W] |            | 3.3       | 5        | 6        | 6        | 6        | 6        | 6        | 6        | 6        | 6        | 3.96      | 6        | 6        | 6        |
| DC OUTPUT             | VOLTAGE[V] | 3.3       | 5        | 12       | 15       | 5        | 12       | 15       | 5        | 12       | 15       | 3.3       | 5        | 12       | 15       |
|                       | CURRENT[A] | 1.0       | 1.0      | 0.5      | 0.4      | 1.2      | 0.5      | 0.4      | 1.2      | 0.5      | 0.4      | 1.2       | 1.2      | 0.5      | 0.4      |

## SPECIFICATIONS

|                    | MODEL                                | ZUS6053R3                                                                                    | ZUS60505    | ZUS60512      | ZUS60515      | ZUS61205    | ZUS61212      | ZUS61215      | ZUS62405    | ZUS62412      | ZUS62415      | ZUS6483R3   | ZUS64805    | ZUS64812      | ZUS64815      |
|--------------------|--------------------------------------|----------------------------------------------------------------------------------------------|-------------|---------------|---------------|-------------|---------------|---------------|-------------|---------------|---------------|-------------|-------------|---------------|---------------|
| INPUT              | VOLTAGE[V]                           | DC4.5 - 9                                                                                    |             |               |               | DC9 - 18    |               |               |             | DC18 - 36     |               |             | DC36 - 72   |               |               |
|                    | CURRENT[A]                           | *1 0.94typ                                                                                   | 1.41typ     | 1.63typ       | 1.63typ       | 0.69typ     | 0.65typ       | 0.65typ       | 0.35typ     | 0.33typ       | 0.33typ       | 0.09typ     | 0.18typ     | 0.17typ       | 0.17typ       |
|                    | EFFICIENCY[%]                        | *1 70typ                                                                                     | 71typ       | 74typ         | 74typ         | 73typ       | 78typ         | 78typ         | 73typ       | 78typ         | 78typ         | 73typ       | 73typ       | 78typ         | 78typ         |
| OUTPUT             | VOLTAGE[V]                           | 3.3                                                                                          | 5           | 12            | 15            | 5           | 12            | 15            | 5           | 12            | 15            | 3.3         | 5           | 12            | 15            |
|                    | CURRENT[A]                           | 1.0                                                                                          | 1.0         | 0.5           | 0.4           | 1.2         | 0.5           | 0.4           | 1.2         | 0.5           | 0.4           | 1.2         | 1.2         | 0.5           | 0.4           |
|                    | LINE REGULATION[mV]                  | 20max                                                                                        | 20max       | 48max         | 60max         | 20max       | 48max         | 60max         | 20max       | 48max         | 60max         | 20max       | 20max       | 48max         | 60max         |
|                    | LOAD REGULATION[mV]                  | 40max                                                                                        | 40max       | 100max        | 120max        | 40max       | 100max        | 120max        | 40max       | 100max        | 120max        | 40max       | 40max       | 100max        | 120max        |
|                    | RIPPLE[mVp-p]                        | *2 80max                                                                                     | 80max       | 120max        | 120max        | 80max       | 120max        | 120max        | 80max       | 120max        | 120max        | 80max       | 80max       | 120max        | 120max        |
|                    | RIPPLE NOISE[mVp-p]                  | *2 120max                                                                                    | 120max      | 150max        | 150max        | 120max      | 150max        | 150max        | 120max      | 150max        | 150max        | 120max      | 120max      | 150max        | 150max        |
|                    | TEMPERATURE REGULATION[mV]           | -20 to +55°C                                                                                 | 50max       | 50max         | 150max        | 180max      | 50max         | 150max        | 180max      | 50max         | 150max        | 180max      | 50max       | 150max        | 180max        |
|                    | DRIFT[mV]                            | *3 20max                                                                                     | 20max       | 48max         | 60max         | 20max       | 48max         | 60max         | 20max       | 48max         | 60max         | 20max       | 20max       | 48max         | 60max         |
|                    | START-UP TIME[ms]                    | 20max (Minimum input, Io=100%)                                                               |             |               |               |             |               |               |             |               |               |             |             |               |               |
|                    | OUTPUT VOLTAGE ADJUSTMENT RANGE[V]   | Fixed                                                                                        |             |               |               |             |               |               |             |               |               |             |             |               |               |
|                    | OUTPUT VOLTAGE SETTING[V]            | 3.20 - 3.47                                                                                  | 4.85 - 5.25 | 11.40 - 12.60 | 14.25 - 15.75 | 4.85 - 5.25 | 11.40 - 12.60 | 14.25 - 15.75 | 4.85 - 5.25 | 11.40 - 12.60 | 14.25 - 15.75 | 3.20 - 3.47 | 4.85 - 5.25 | 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 50MΩ min (20±15°C)                             |             |               |               |             |               |               |             |               |               |             |             |               |               |
|                    | INPUT-CASE                           | AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C)                             |             |               |               |             |               |               |             |               |               |             |             |               |               |
|                    | OUTPUT-CASE                          | AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ 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 <sup>2</sup> (10G), 3minutes period, 60minutes each along X, Y and Z axis |             |               |               |             |               |               |             |               |               |             |             |               |               |
|                    | IMPACT                               | 490.3m/s <sup>2</sup> (50G), 11ms, once each X, Y and Z axis                                 |             |               |               |             |               |               |             |               |               |             |             |               |               |
| SAFETY             | AGENCY APPROVALS                     | UL60950-1, EN60950-1, CSA C22.2 No.60950-1 Complies with IEC60950-1                          |             |               |               |             |               |               |             |               |               |             |             |               |               |
| OTHERS             | CASE SIZE/WEIGHT                     | 44.5 × 7 × 28mm (W × H × D) / 25g max                                                        |             |               |               |             |               |               |             |               |               |             |             |               |               |
|                    | COOLING METHOD                       | Convection                                                                                   |             |               |               |             |               |               |             |               |               |             |             |               |               |

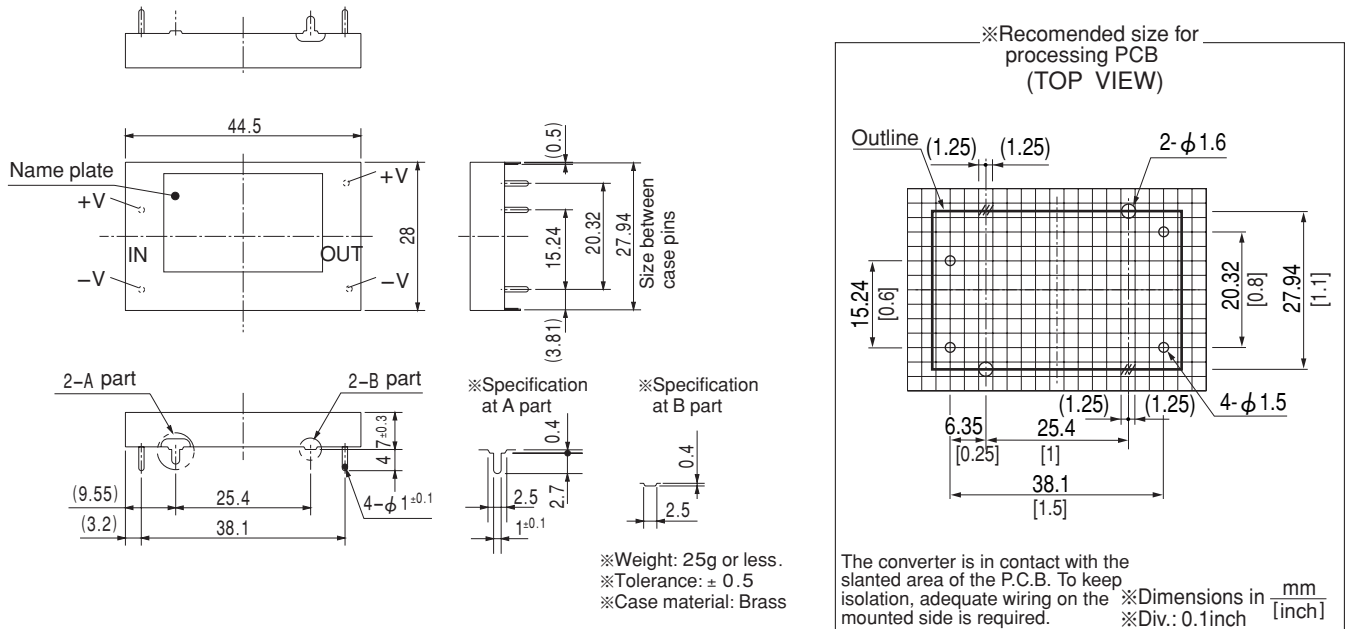
\*1 Rated input. 5V, 12V, 24V or 48V DC, Io=100%

\*2 Measured by 20MHz oscilloscope.

\*3 The drift is a change at 25°C of ambient temperature and 30 minutes - 8 hours after the input voltage applied at rated input/output.

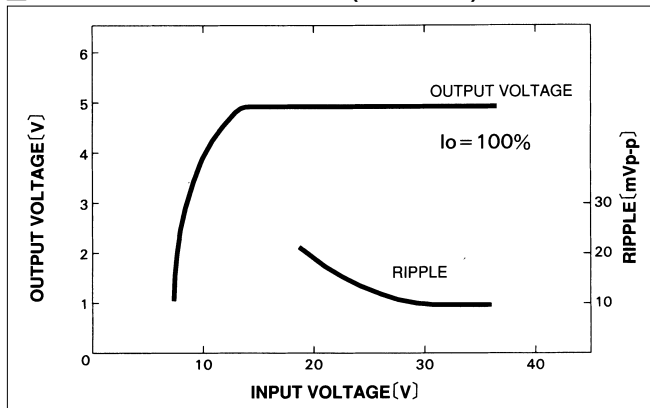
\* Series/Parallel operation with other model is not possible.

## External view

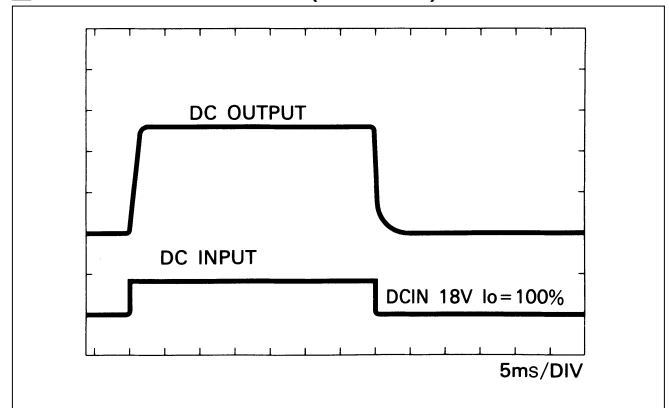


## Performance data

## ■ STATIC CHARACTERISTICS (ZUS62405)

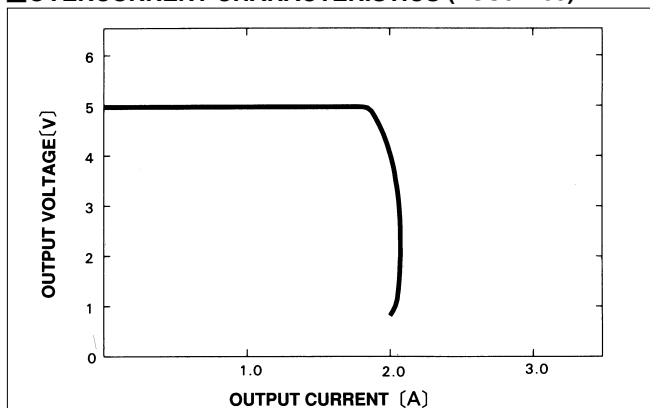


## ■ RISE TIME &amp; FALL TIME (ZUS62405)

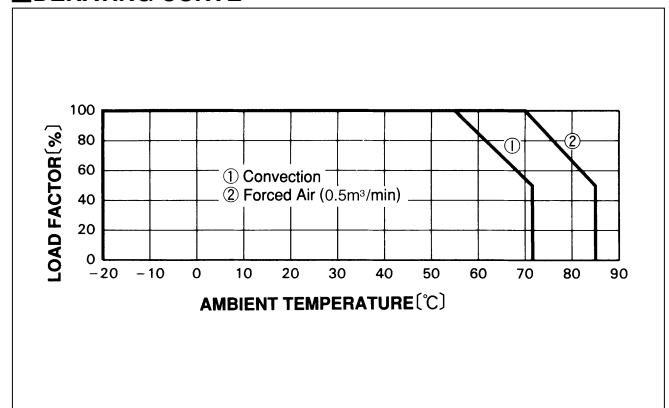


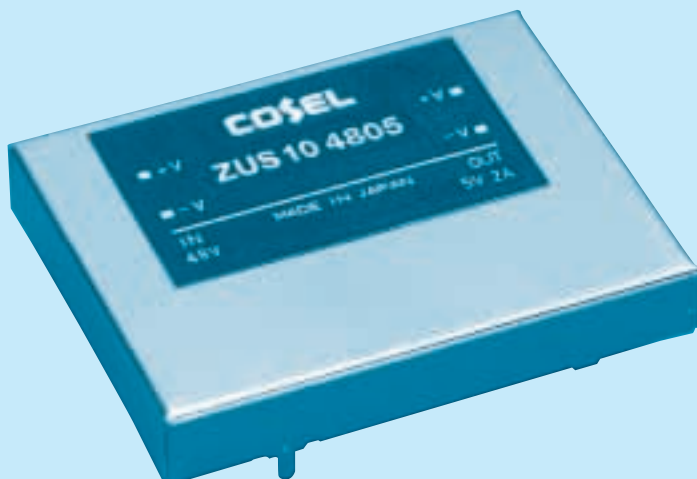
ZU/ZT

## ■ OVERCURRENT CHARACTERISTICS (ZUS62405)



## ■ DERATING CURVE





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

| MODEL                 |            | ZUS10053R3 | ZUS100505 | ZUS100512 | ZUS100515 | ZUS101205 | ZUS101212 | ZUS101215 | ZUS102405 | ZUS102412 | ZUS102415 | ZUS10483R3 | ZUS104805 | ZUS104812 | ZUS104815 |
|-----------------------|------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|
| MAX OUTPUT WATTAGE[W] |            | 5.28       | 8.0       | 8.4       | 9.0       | 10.0      | 10.8      | 10.5      | 10.0      | 10.8      | 10.5      | 6.6        | 10.0      | 10.8      | 10.5      |
| DC OUTPUT             | VOLTAGE[V] | 3.3        | 5         | 12        | 15        | 5         | 12        | 15        | 5         | 12        | 15        | 3.3        | 5         | 12        | 15        |
|                       | CURRENT[A] | 1.6        | 1.6       | 0.7       | 0.6       | 2.0       | 0.9       | 0.7       | 2.0       | 0.9       | 0.7       | 2.0        | 2.0       | 0.9       | 0.7       |

## SPECIFICATIONS

|                    | MODEL                              | ZUS10053R3                                                                                   | ZUS100505   | ZUS100512     | ZUS100515     | ZUS101205   | ZUS101212     | ZUS101215     | ZUS102405   | ZUS102412     | ZUS102415     | ZUS10483R3  | ZUS104805   | ZUS104812     | ZUS104815     |        |
|--------------------|------------------------------------|----------------------------------------------------------------------------------------------|-------------|---------------|---------------|-------------|---------------|---------------|-------------|---------------|---------------|-------------|-------------|---------------|---------------|--------|
| INPUT              | VOLTAGE[V]                         | DC4.5 - 9                                                                                    |             |               |               | DC9 - 18    |               |               | DC18 - 36   |               |               | DC36 - 72   |             |               |               |        |
|                    | CURRENT[A]                         | *1 1.48typ                                                                                   | 2.14typ     | 2.24typ       | 2.40typ       | 1.05typ     | 1.10typ       | 1.07typ       | 0.53typ     | 0.55typ       | 0.54typ       | 0.18typ     | 0.27typ     | 0.28typ       | 0.27typ       |        |
|                    | EFFICIENCY[%]                      | *1 72typ                                                                                     | 75typ       | 75typ         | 75typ         | 80typ       | 82typ         | 82typ         | 80typ       | 82typ         | 82typ         | 75typ       | 80typ       | 82typ         | 82typ         |        |
| OUTPUT             | VOLTAGE[V]                         | 3.3                                                                                          | 5           | 12            | 15            | 5           | 12            | 15            | 5           | 12            | 15            | 3.3         | 5           | 12            | 15            |        |
|                    | CURRENT[A]                         | 1.6                                                                                          | 1.6         | 0.7           | 0.6           | 2.0         | 0.9           | 0.7           | 2.0         | 0.9           | 0.7           | 2.0         | 2.0         | 0.9           | 0.7           |        |
|                    | LINE REGULATION[mV]                | 20max                                                                                        | 20max       | 48max         | 60max         | 20max       | 48max         | 60max         | 20max       | 48max         | 60max         | 20max       | 20max       | 48max         | 60max         |        |
|                    | LOAD REGULATION[mV]                | 40max                                                                                        | 40max       | 100max        | 120max        | 40max       | 100max        | 120max        | 40max       | 100max        | 120max        | 40max       | 40max       | 100max        | 120max        |        |
|                    | RIPPLE[mVp-p]                      | *2 80max                                                                                     | 80max       | 120max        | 120max        | 80max       | 120max        | 120max        | 80max       | 120max        | 120max        | 80max       | 80max       | 120max        | 120max        |        |
|                    | RIPPLE NOISE[mVp-p]                | *2 120max                                                                                    | 120max      | 150max        | 150max        | 120max      | 150max        | 150max        | 120max      | 150max        | 150max        | 120max      | 120max      | 150max        | 150max        |        |
|                    | TEMPERATURE REGULATION[mV]         | -20 to +55℃                                                                                  | 50max       | 50max         | 150max        | 180max      | 50max         | 150max        | 180max      | 50max         | 150max        | 180max      | 50max       | 50max         | 150max        | 180max |
|                    | DRIFT[mV]                          | *3 20max                                                                                     | 20max       | 48max         | 60max         | 20max       | 48max         | 60max         | 20max       | 48max         | 60max         | 20max       | 20max       | 48max         | 60max         |        |
|                    | START-UP TIME[ms]                  | 20max (Minimum input, Io=100%)                                                               |             |               |               |             |               |               |             |               |               |             |             |               |               |        |
|                    | OUTPUT VOLTAGE ADJUSTMENT RANGE[V] | Fixed                                                                                        |             |               |               |             |               |               |             |               |               |             |             |               |               |        |
|                    | OUTPUT VOLTAGE SETTING[V]          | 3.20 - 3.47                                                                                  | 4.85 - 5.25 | 11.40 - 12.60 | 14.25 - 15.75 | 4.85 - 5.25 | 11.40 - 12.60 | 14.25 - 15.75 | 4.85 - 5.25 | 11.40 - 12.60 | 14.25 - 15.75 | 3.20 - 3.47 | 4.85 - 5.25 | 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 50MΩ min (20±15℃)                              |             |               |               |             |               |               |             |               |               |             |             |               |               |        |
|                    | INPUT-CASE                         | AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)                              |             |               |               |             |               |               |             |               |               |             |             |               |               |        |
|                    | OUTPUT-CASE                        | AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)                              |             |               |               |             |               |               |             |               |               |             |             |               |               |        |
| ENVIRONMENT        | OPERATING TEMP.,HUMID.AND ALTITUDE | -20 to +71℃, 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max  |             |               |               |             |               |               |             |               |               |             |             |               |               |        |
|                    | STORAGE TEMP.,HUMID.AND ALTITUDE   | -40 to +85℃, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max                            |             |               |               |             |               |               |             |               |               |             |             |               |               |        |
|                    | VIBRATION                          | 10 - 55Hz, 98.0m/s <sup>2</sup> (10G), 3minutes period, 60minutes each along X, Y and Z axis |             |               |               |             |               |               |             |               |               |             |             |               |               |        |
|                    | IMPACT                             | 490.3m/s <sup>2</sup> (50G), 11ms, once each X, Y and Z axis                                 |             |               |               |             |               |               |             |               |               |             |             |               |               |        |
| SAFETY             | AGENCY APPROVALS                   | UL60950-1, EN60950-1, CSA C22.2 No.60950-1 Complies with IEC60950-1                          |             |               |               |             |               |               |             |               |               |             |             |               |               |        |
| OTHERS             | CASE SIZE/WEIGHT                   | 45×7×35mm (W×H×D) / 40g max                                                                  |             |               |               |             |               |               |             |               |               |             |             |               |               |        |
|                    | COOLING METHOD                     | Convection                                                                                   |             |               |               |             |               |               |             |               |               |             |             |               |               |        |

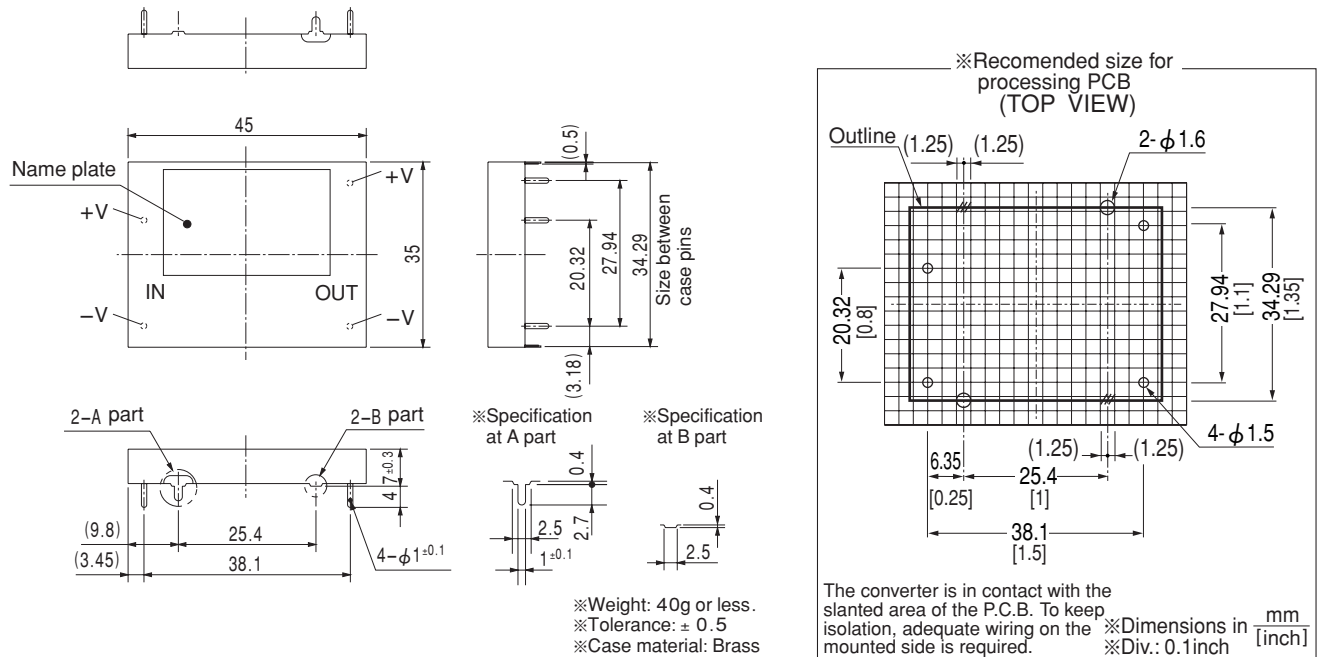
\*1 Rated input. 5V, 12V, 24V or 48V DC, Io=100%

\*2 Measured by 20MHz oscilloscope.

\*3 The drift is a change at 25°C of ambient temperature and 30 minutes - 8 hours after the input voltage applied at rated input/output.

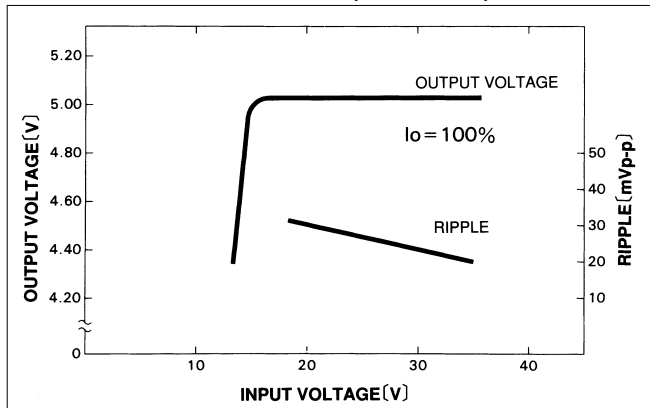
\* Series/Parallel operation with other model is not possible.

## External view

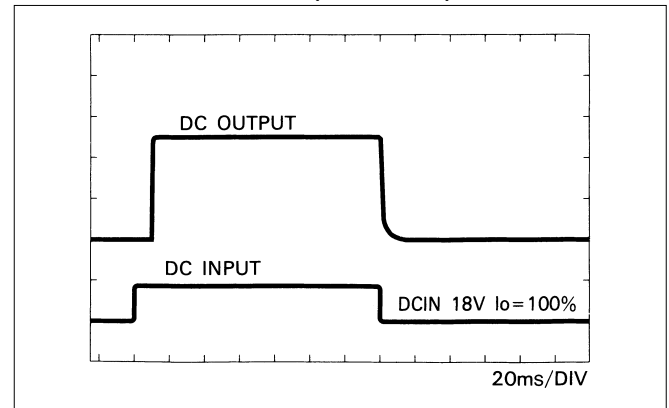


## Performance data

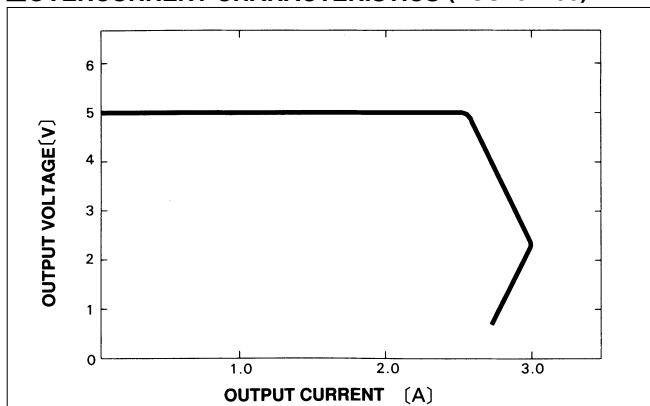
## ■STATIC CHARACTERISTICS (ZUS102405)



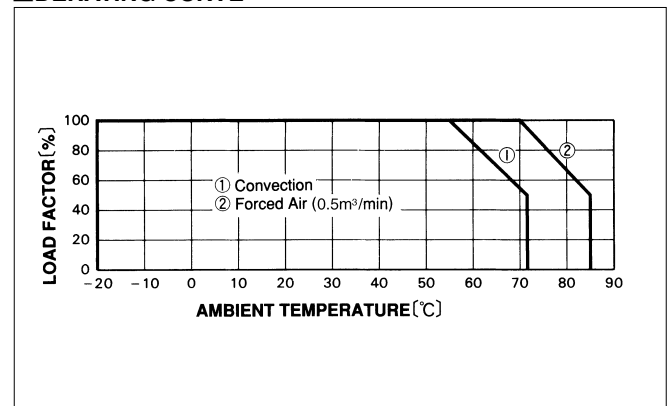
## ■RISE TIME &amp; FALL TIME (ZUS102405)



## ■OVERCURRENT CHARACTERISTICS (ZUS102405)



## ■DERATING CURVE





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

| MODEL                 | ZUS15053R3 | ZUS150505 | ZUS150512 | ZUS151205 | ZUS151212 | ZUS152405 | ZUS152412 | ZUS15483R3 | ZUS154805 | ZUS154812 |
|-----------------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|
| MAX OUTPUT WATTAGE[W] | 6.6        | 10.0      | 12.0      | 12.0      | 15.6      | 12.0      | 15.6      | 7.92       | 12.0      | 15.6      |
| DC OUTPUT             | VOLTAGE[V] | 3.3       | 5         | 12        | 5         | 12        | 5         | 12         | 3.3       | 5         |
|                       | CURRENT[A] | 2.0       | 2.0       | 1.0       | 2.4       | 1.3       | 2.4       | 1.3        | 2.4       | 1.3       |

## SPECIFICATIONS

|                    | MODEL                                | ZUS15053R3                                                                                                           | ZUS150505                     | ZUS150512 | ZUS151205 | ZUS151212 | ZUS152405 | ZUS152412 | ZUS15483R3  | ZUS154805                     | ZUS154812 |
|--------------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------|-----------|-----------|-----------|-----------|-------------|-------------------------------|-----------|
| INPUT              | VOLTAGE[V]                           | DC4.5 - 9                                                                                                            |                               |           | DC9 - 18  |           | DC18 - 36 |           | DC36 - 75   |                               |           |
|                    | CURRENT[A]                           | *1 1.83typ                                                                                                           | 2.50typ                       | 2.96typ   | 1.25typ   | 1.57typ   | 0.63typ   | 0.78typ   | 0.21typ     | 0.31typ                       | 0.39typ   |
|                    | EFFICIENCY[%]                        | *1 72typ                                                                                                             | 80typ                         | 81typ     | 80typ     | 83typ     | 80typ     | 83typ     | 78typ       | 80typ                         | 83typ     |
| OUTPUT             | VOLTAGE[V]                           | 3.3                                                                                                                  | 5                             | 12        | 5         | 12        | 5         | 12        | 3.3         | 5                             | 12        |
|                    | CURRENT[A]                           | 2.0                                                                                                                  | 2.0                           | 1.0       | 2.4       | 1.3       | 2.4       | 1.3       | 2.4         | 2.4                           | 1.3       |
|                    | LINE REGULATION[mV]                  | 20max                                                                                                                | 20max                         | 48max     | 20max     | 48max     | 20max     | 48max     | 20max       | 20max                         | 48max     |
|                    | LOAD REGULATION[mV]                  | 40max                                                                                                                | 40max                         | 100max    | 40max     | 100max    | 40max     | 100max    | 40max       | 40max                         | 100max    |
|                    | RIPPLE[mVp-p]                        | *2 80max                                                                                                             | 80max                         | 120max    | 80max     | 120max    | 80max     | 120max    | 80max       | 80max                         | 120max    |
|                    | RIPPLE NOISE[mVp-p]                  | *2 120max                                                                                                            | 120max                        | 150max    | 120max    | 150max    | 120max    | 150max    | 120max      | 120max                        | 150max    |
|                    | TEMPERATURE REGULATION[mV] 0 to +55℃ | 50max                                                                                                                | 50max                         | 150max    | 50max     | 150max    | 50max     | 150max    | 50max       | 50max                         | 150max    |
|                    | DRIFT[mV]                            | *3 20max                                                                                                             | 20max                         | 48max     | 20max     | 48max     | 20max     | 48max     | 20max       | 20max                         | 48max     |
|                    | START-UP TIME[ms]                    | 100max (Minimum input, Io=100%)                                                                                      |                               |           |           |           |           |           |             |                               |           |
|                    | OUTPUT VOLTAGE ADJUSTMENT RANGE[V]   | Internally fixed (TRM pin open), adjustable by external VR                                                           |                               |           |           |           |           |           |             |                               |           |
|                    | OUTPUT VOLTAGE SETTING[V]            | 3.20 - 3.47                                                                                                          | ±5%                           |           |           |           |           |           |             | 3.20 - 3.47                   | ±5%       |
| PROTECTION CIRCUIT | OVERCURRENT PROTECTION               | Works over 105% of rating and recovers automatically                                                                 |                               |           |           |           |           |           |             |                               |           |
|                    | OVERVOLTAGE PROTECTION               | 4.0 - 5.25V                                                                                                          | Works at 115 - 140% of rating |           |           |           |           |           | 4.0 - 5.25V | Works at 115 - 140% of rating |           |
|                    | REMOTE ON/OFF                        | Between RC and -side of input:short - 1.2V · · · output ON, 2.4V - 5.5V(or open) · · · output OFF, Compatible to TTL |                               |           |           |           |           |           |             |                               |           |
| ISOLATION          | INPUT-OUTPUT                         | AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)                                                      |                               |           |           |           |           |           |             |                               |           |
|                    | INPUT-CASE                           | AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)                                                      |                               |           |           |           |           |           |             |                               |           |
|                    | OUTPUT-CASE                          | AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)                                                      |                               |           |           |           |           |           |             |                               |           |
| ENVIRONMENT        | OPERATING TEMP.,HUMID.AND ALTITUDE   | -20 to +71℃, 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max                          |                               |           |           |           |           |           |             |                               |           |
|                    | STORAGE TEMP.,HUMID.AND ALTITUDE     | -40 to +85℃, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max                                                    |                               |           |           |           |           |           |             |                               |           |
|                    | VIBRATION                            | 10 - 55Hz, 98.0m/s <sup>2</sup> (10G), 3minutes period, 60minutes each along X, Y and Z axis                         |                               |           |           |           |           |           |             |                               |           |
|                    | IMPACT                               | 490.3m/s <sup>2</sup> (50G), 11ms, once each X, Y and Z axis                                                         |                               |           |           |           |           |           |             |                               |           |
| SAFETY             | AGENCY APPROVALS                     | UL60950-1, EN60950-1, CSA C22.2 No.60950-1 Complies with IEC60950-1                                                  |                               |           |           |           |           |           |             |                               |           |
| OTHERS             | CASE SIZE/WEIGHT                     | 45×8.5×50mm (W×H×D) / 55g max                                                                                        |                               |           |           |           |           |           |             |                               |           |
|                    | COOLING METHOD                       | Convection                                                                                                           |                               |           |           |           |           |           |             |                               |           |

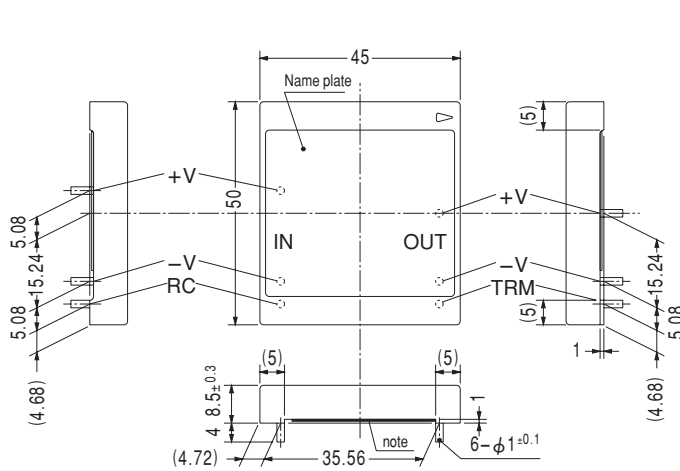
\*1 Rated input. 5V, 12V, 24V or 48V DC, Io=100%

\*2 Measured by 20MHz oscilloscope.

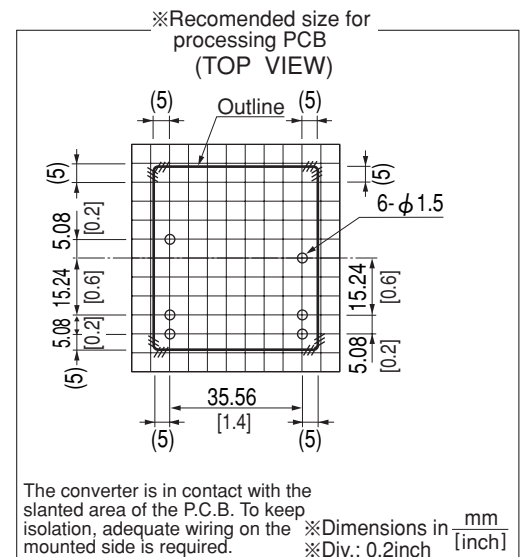
\*3 The drift is a change at 25°C of ambient temperature and 30 minutes - 8 hours after the input voltage applied at rated input/output.

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

## External view

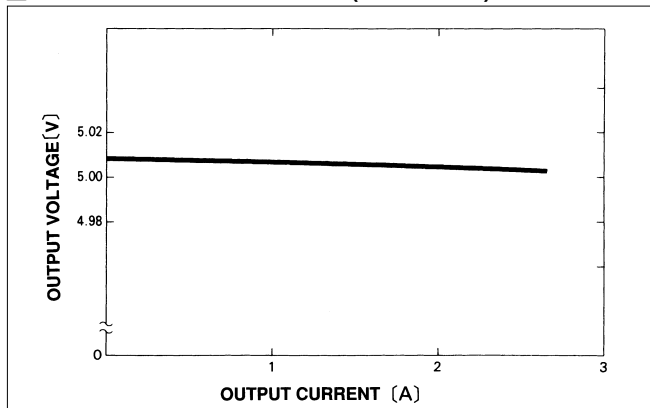


note) Internal parts  
 ※Weight: 55g or less.  
 ※Tolerance: ± 0.5  
 ※Case material: Aluminum

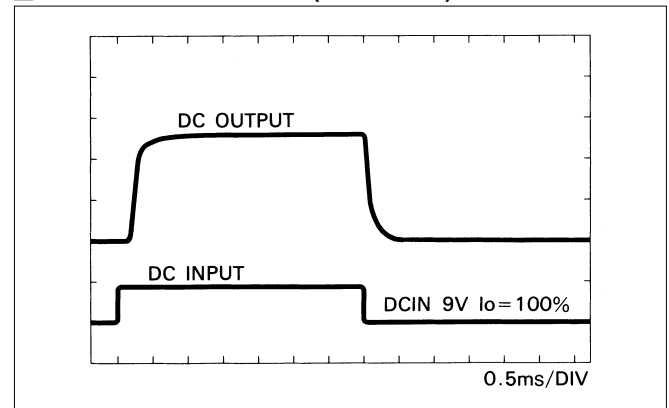


## Performance data

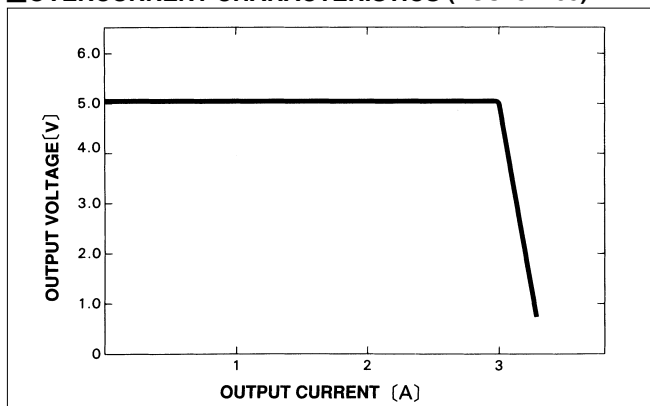
## ■ STATIC CHARACTERISTICS (ZUS151205)



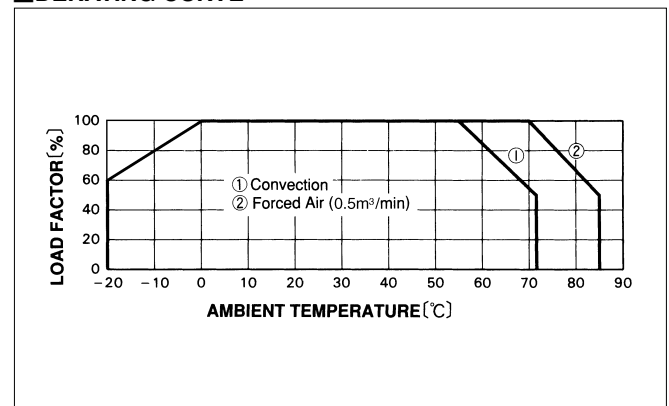
## ■ RISE TIME &amp; FALL TIME (ZUS151205)



## ■ OVERCURRENT CHARACTERISTICS (ZUS151205)



## ■ DERATING CURVE





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

| MODEL                 | ZUS25053R3 | ZUS250505 | ZUS250512 | ZUS251205 | ZUS251212 | ZUS252405 | ZUS252412 | ZUS25483R3 | ZUS254805 | ZUS254812 |
|-----------------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|
| MAX OUTPUT WATTAGE[W] | 13.2       | 16.0      | 20.4      | 20.0      | 25.2      | 20.0      | 25.2      | 13.2       | 20.0      | 25.2      |
| DC OUTPUT             | VOLTAGE[V] | 3.3       | 5         | 12        | 5         | 12        | 5         | 12         | 3.3       | 5         |
|                       | CURRENT[A] | 4.0       | 3.2       | 1.7       | 4.0       | 2.1       | 4.0       | 2.1        | 4.0       | 2.1       |

## SPECIFICATIONS

|                           | MODEL                                | ZUS25053R3                                                                                                           | ZUS250505                     | ZUS250512   | ZUS251205   | ZUS251212   | ZUS252405   | ZUS252412   | ZUS25483R3  | ZUS254805                     | ZUS254812 |
|---------------------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------------------|-----------|
| INPUT                     | VOLTAGE[V]                           | DC4.5 - 9                                                                                                            |                               |             | DC9 - 18    |             | DC18 - 36   |             | DC36 - 75   |                               |           |
|                           | CURRENT[A]                           | *1 3.66typ                                                                                                           | 4.00typ                       | 4.98typ     | 2.03typ     | 2.47typ     | 1.02typ     | 1.23typ     | 0.35typ     | 0.51typ                       | 0.62typ   |
|                           | EFFICIENCY[%]                        | *1 72typ                                                                                                             | 80typ                         | 82typ       | 82typ       | 85typ       | 82typ       | 85typ       | 78typ       | 82typ                         | 85typ     |
| OUTPUT                    | VOLTAGE[V]                           | 3.3                                                                                                                  | 5                             | 12          | 5           | 12          | 5           | 12          | 3.3         | 5                             | 12        |
|                           | CURRENT[A]                           | 4.0                                                                                                                  | 3.2                           | 1.7         | 4.0         | 2.1         | 4.0         | 2.1         | 4.0         | 4.0                           | 2.1       |
|                           | LINE REGULATION[mV]                  | 20max                                                                                                                | 20max                         | 48max       | 20max       | 48max       | 20max       | 48max       | 20max       | 20max                         | 48max     |
|                           | LOAD REGULATION[mV]                  | 40max                                                                                                                | 40max                         | 100max      | 40max       | 100max      | 40max       | 100max      | 40max       | 40max                         | 100max    |
|                           | RIPPLE[mVp-p]                        | *2 80max                                                                                                             | 80max                         | 120max      | 80max       | 120max      | 80max       | 120max      | 80max       | 80max                         | 120max    |
|                           | RIPPLE NOISE[mVp-p]                  | *2 120max                                                                                                            | 120max                        | 150max      | 120max      | 150max      | 120max      | 150max      | 120max      | 120max                        | 150max    |
|                           | TEMPERATURE REGULATION[mV] 0 to +55℃ | 50max                                                                                                                | 50max                         | 150max      | 50max       | 150max      | 50max       | 150max      | 50max       | 50max                         | 150max    |
|                           | DRIFT[mV]                            | *3 20max                                                                                                             | 20max                         | 48max       | 20max       | 48max       | 20max       | 48max       | 20max       | 20max                         | 48max     |
|                           | START-UP TIME[ms]                    | 100max (Minimum input, Io=100%)                                                                                      |                               |             |             |             |             |             |             |                               |           |
|                           | OUTPUT VOLTAGE ADJUSTMENT RANGE[V]   | Internally fixed (TRM pin open), adjustable by external VR                                                           |                               |             |             |             |             |             |             |                               |           |
|                           |                                      | 3.20 - 3.47                                                                                                          | ±5%                           |             |             |             |             |             |             | 3.20 - 3.47                   | ±5%       |
| OUTPUT VOLTAGE SETTING[V] | 3.20 - 3.47                          | 4.85 - 5.25                                                                                                          | 11.4 - 12.6                   | 4.85 - 5.25 | 11.4 - 12.6 | 4.85 - 5.25 | 11.4 - 12.6 | 3.20 - 3.47 | 4.85 - 5.25 | 11.4 - 12.6                   |           |
| PROTECTION CIRCUIT        | OVERCURRENT PROTECTION               | Works over 105% of rating and recovers automatically                                                                 |                               |             |             |             |             |             |             |                               |           |
|                           | OVERVOLTAGE PROTECTION               | 4.0 - 5.25V                                                                                                          | Works at 115 - 140% of rating |             |             |             |             |             | 4.0 - 5.25V | Works at 115 - 140% of rating |           |
|                           | REMOTE ON/OFF                        | Between RC and -side of input:short - 1.2V · · · output ON, 2.4V - 5.5V(or open) · · · output OFF, Compatible to TTL |                               |             |             |             |             |             |             |                               |           |
| ISOLATION                 | INPUT-OUTPUT                         | AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)                                                      |                               |             |             |             |             |             |             |                               |           |
|                           | INPUT-CASE                           | AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)                                                      |                               |             |             |             |             |             |             |                               |           |
|                           | OUTPUT-CASE                          | AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)                                                      |                               |             |             |             |             |             |             |                               |           |
| ENVIRONMENT               | OPERATING TEMP.,HUMID.AND ALTITUDE   | -20 to +71℃, 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max                          |                               |             |             |             |             |             |             |                               |           |
|                           | STORAGE TEMP.,HUMID.AND ALTITUDE     | -40 to +85℃, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max                                                    |                               |             |             |             |             |             |             |                               |           |
|                           | VIBRATION                            | 10 - 55Hz, 98.0m/s <sup>2</sup> (10G), 3minutes period, 60minutes each along X, Y and Z axis                         |                               |             |             |             |             |             |             |                               |           |
|                           | IMPACT                               | 490.3m/s <sup>2</sup> (50G), 11ms, once each X, Y and Z axis                                                         |                               |             |             |             |             |             |             |                               |           |
| SAFETY                    | AGENCY APPROVALS                     | UL60950-1, EN60950-1, CSA C22.2 No.60950-1 Complies with IEC60950-1                                                  |                               |             |             |             |             |             |             |                               |           |
| OTHERS                    | CASE SIZE/WEIGHT                     | 65×8.5×50mm (W×H×D) / 65g max                                                                                        |                               |             |             |             |             |             |             |                               |           |
|                           | COOLING METHOD                       | Convection                                                                                                           |                               |             |             |             |             |             |             |                               |           |

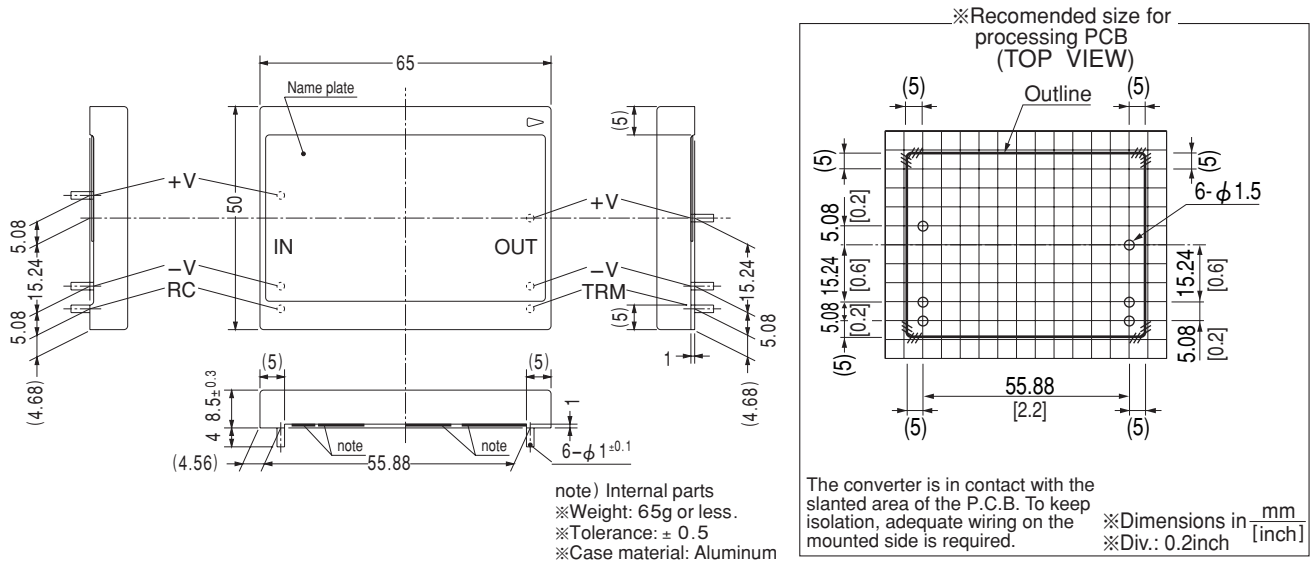
\*1 Rated input. 5V, 12V, 24V or 48V DC, Io=100%

\*2 Measured by 20MHz oscilloscope.

\*3 The drift is a change at 25°C of ambient temperature and 30 minutes - 8 hours after the input voltage applied at rated input/output.

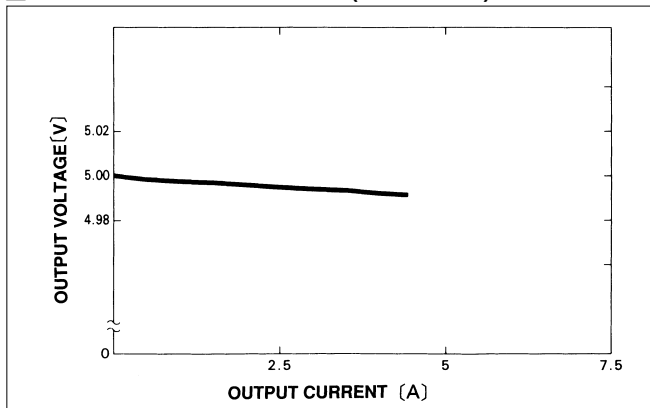
\* Series/Parallel operation with other model is not possible.

## External view

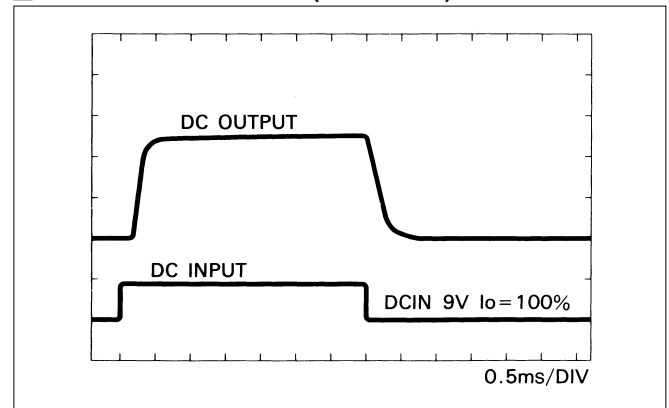


## Performance data

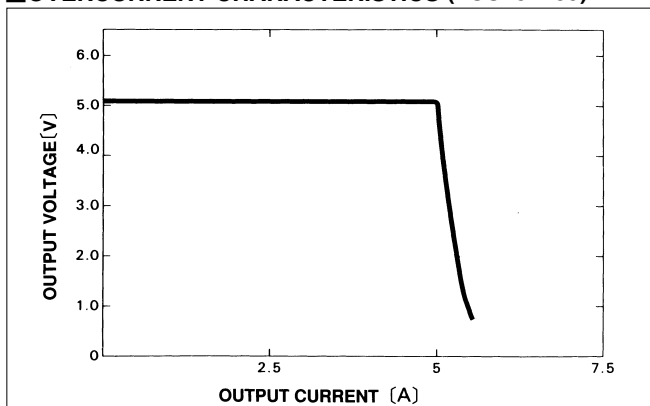
## ■STATIC CHARACTERISTICS (ZUS251205)



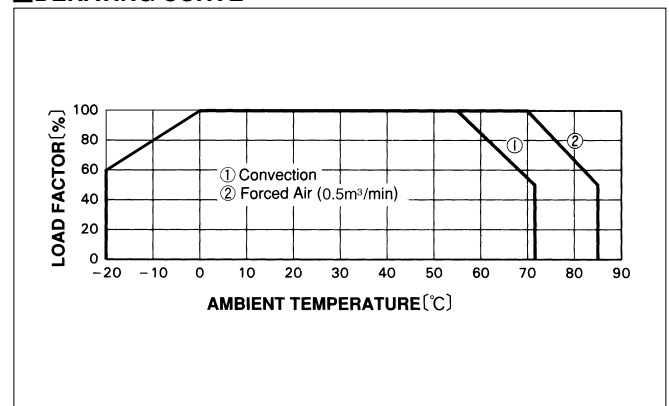
### ■ RISE TIME & FALL TIME (ZUS251205)



## ■ OVERCURRENT CHARACTERISTICS (ZUS251205)



## DERATING CURVE



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#### Как с нами связаться

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