



#### ■ Features :

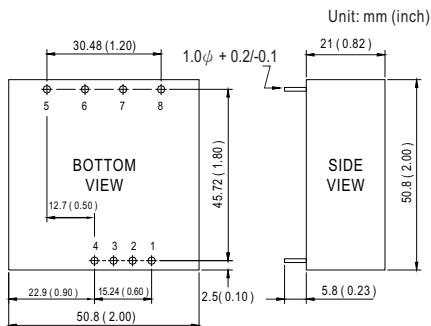
- 2:1 wide input range
- 4:1 wide input range(option)
- 1000VDC I/O isolation
- Built-in EMI filter
- Trimming output( $\pm 10\%$ )
- Remote ON-OFF control
- Protections: Short circuit / Overload
- Cooling by free air convection
- Six-sided shield metal case
- Epoxy encapsulated
- 100% burn-in test
- Approvals: FCC/ EAC / CE
- 2 years warranty



#### SPECIFICATION

| ORDER NO.                              |                                             | DKA30A-05                                                                              | DKA30B-05                      | DKA30C-05 | DKA30A-12      | DKA30B-12 | DKA30C-12 | DKA30A-15      | DKA30B-15 | DKA30C-15 |  |
|----------------------------------------|---------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------|-----------|----------------|-----------|-----------|----------------|-----------|-----------|--|
| OUTPUT                                 | DC VOLTAGE                                  | ±5V                                                                                    |                                |           | ±12V           |           |           | ±15V           |           |           |  |
|                                        | CURRENT RANGE                               | ±250 ~ ±2500mA                                                                         |                                |           | ±125 ~ ±1250mA |           |           | ±100 ~ ±1000mA |           |           |  |
|                                        | RATED POWER                                 | 25W                                                                                    |                                |           | 30W            |           |           | 30W            |           |           |  |
|                                        | RIPPLE & NOISE (max.) <small>Note.2</small> | 100mVp-p                                                                               |                                |           |                |           |           |                |           |           |  |
|                                        | LINE REGULATION <small>Note.3</small>       | ±0.5%                                                                                  |                                |           |                |           |           |                |           |           |  |
|                                        | LOAD REGULATION <small>Note.4</small>       | ±0.5%                                                                                  |                                |           |                |           |           |                |           |           |  |
|                                        | VOLTAGE ACCURACY                            | ±2.0%                                                                                  |                                |           |                |           |           |                |           |           |  |
|                                        | SWITCHING FREQUENCY                         | 100KHz min.                                                                            |                                |           |                |           |           |                |           |           |  |
|                                        | EXTERNAL TRIM Adj. RANGE                    | ±10%                                                                                   |                                |           |                |           |           |                |           |           |  |
| INPUT                                  | VOLTAGE RANGE                               | A: 9 ~ 18VDC    B: 18 ~ 36VDC    C: 36 ~ 72VDC                                         |                                |           |                |           |           |                |           |           |  |
|                                        | EFFICIENCY (Typ.)                           | 80%                                                                                    | 80%                            | 80%       | 80%            | 83%       | 81%       | 80%            | 83%       | 81%       |  |
|                                        | DC CURRENT                                  | Full load                                                                              | A: 3.2A    B: 1.5A    C: 0.77A |           |                |           |           |                |           |           |  |
|                                        |                                             | No load                                                                                | A: 40mA    B: 20mA    C: 10mA  |           |                |           |           |                |           |           |  |
|                                        | FILTER                                      | Pi network                                                                             |                                |           |                |           |           |                |           |           |  |
| PROTECTION                             | Fuse recommended                            |                                                                                        |                                |           |                |           |           |                |           |           |  |
| PROTECTION<br><small>(Note. 5)</small> | OVERLOAD                                    | 110 ~ 250% rated output power                                                          |                                |           |                |           |           |                |           |           |  |
|                                        |                                             | Protection type : Hiccup mode, recovers automatically after fault condition is removed |                                |           |                |           |           |                |           |           |  |
|                                        | SHORT CIRCUIT                               | All output equipped with short circuit                                                 |                                |           |                |           |           |                |           |           |  |
|                                        |                                             | Protection type : Hiccup mode, recovers automatically after fault condition is removed |                                |           |                |           |           |                |           |           |  |
| ENVIRONMENT                            | WORKING TEMP.                               | -40 ~ +85℃ (Refer to "Derating Curve")                                                 |                                |           |                |           |           |                |           |           |  |
|                                        | WORKING HUMIDITY                            | 20% ~ 90% RH non-condensing                                                            |                                |           |                |           |           |                |           |           |  |
|                                        | STORAGE TEMP., HUMIDITY                     | -40 ~ +105℃, 10 ~ 95% RH                                                               |                                |           |                |           |           |                |           |           |  |
|                                        | TEMP. COEFFICIENT                           | ±0.03% / ℃(0 ~ 50℃)                                                                    |                                |           |                |           |           |                |           |           |  |
|                                        | VIBRATION                                   | 10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes               |                                |           |                |           |           |                |           |           |  |
| SAFETY & EMC                           | SAFETY STANDARDS                            | EAC TP TC 004 approved                                                                 |                                |           |                |           |           |                |           |           |  |
|                                        | WITHSTAND VOLTAGE                           | I/P-O/P:1KVDC                                                                          |                                |           |                |           |           |                |           |           |  |
|                                        | ISOLATION RESISTANCE                        | I/P-O/P: 100M Ohms / 500VDC / 25℃/ 70% RH                                              |                                |           |                |           |           |                |           |           |  |
|                                        | EMC EMISSION                                | Compliance to EN55032 Class A, FCC part 15 Class A, EAC TP TC 020                      |                                |           |                |           |           |                |           |           |  |
|                                        | EMC IMMUNITY                                | Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A, EAC TP TC 020   |                                |           |                |           |           |                |           |           |  |
| OTHERS                                 | REMOTE CONTROL                              | Power on: R.C ~-Vin > 4.5~5.5VDC or open, Power off : R.C~-Vin <0.8VDC or short        |                                |           |                |           |           |                |           |           |  |
|                                        | MTBF                                        | 100Khrs min. MIL-HDBK-217F (25℃)                                                       |                                |           |                |           |           |                |           |           |  |
|                                        | DIMENSION                                   | 50.8*50.8*21.0mm or 2"*2"*0.82" inch (L*W*H)                                           |                                |           |                |           |           |                |           |           |  |
|                                        | WEIGHT                                      | 110g                                                                                   |                                |           |                |           |           |                |           |           |  |

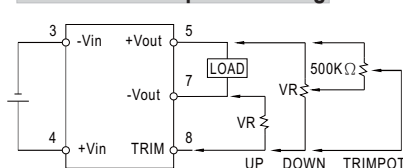
#### ■ Mechanical Specification



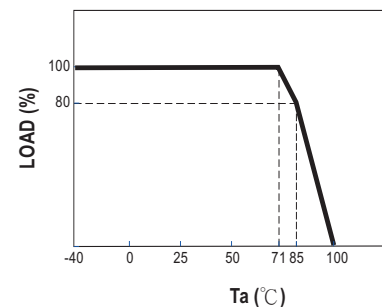
#### ■ Pin Configuration

| Pin No. | Output | Pin No. | Output |
|---------|--------|---------|--------|
| 1       | R.C    | 5       | +Vout  |
| 2       | No Pin | 6       | COM    |
| 3       | -Vin   | 7       | -Vout  |
| 4       | +Vin   | 8       | TRIM   |

#### ■ External Output Trimming



#### ■ Derating Curve



#### NOTE

- 1.All parameters are specified at normal input, rated load, 25°C 70% RH ambient.
  - 2.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1 $\mu$ f & 47 $\mu$ f capacitor.
  - 3.Line regulation is measured from low line to high line at rated load.
  - 4.Load regulation is measured from 10% to 100% rated load.
  - 5.Please prevent the converter from operating in overload or short circuit condition for more than 30 seconds.
- ※ Product Liability Disclaimer : For detailed information, please refer to <https://www.meanwell.com/serviceDisclaimer.aspx>