



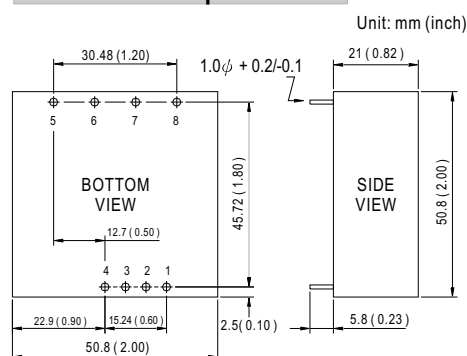
### Features :

- 2:1 wide input range
- 4:1 wide input range (optional)
- 1000VDC I/O isolation
- Input Pi network filter
- Remote ON-OFF control
- Protections: Short circuit / Over load
- Free air convection
- Six-sided shield metal case
- Epoxy encapsulated
- 100% burn-in test
- 1 year 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.) Note.2 | 100mVp-p                                                                                                                         |                          |           |                |           |           |                |           |           |  |
|                         | LINE REGULATION Note.3       | ±0.5%                                                                                                                            |                          |           |                |           |           |                |           |           |  |
|                         | LOAD REGULATION Note.4       | ±0.5%                                                                                                                            |                          |           |                |           |           |                |           |           |  |
|                         | VOLTAGE ACCURACY             | ±2%                                                                                                                              |                          |           |                |           |           |                |           |           |  |
|                         | 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                                                                                                                       |                          |           |                |           |           |                |           |           |  |
|                         | REMOTE CONTROL               | Power on: R.C ~-Vin > 4.5~5.5VDC or open, Power off R.C~ -Vin <0.8VDC or short                                                   |                          |           |                |           |           |                |           |           |  |
| PROTECTION<br>(Note. 5) | OVER LOAD                    | 110~250% rated output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed            |                          |           |                |           |           |                |           |           |  |
|                         | SHORT CIRCUIT                | All output equipped with short circuit<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed |                          |           |                |           |           |                |           |           |  |
|                         |                              |                                                                                                                                  |                          |           |                |           |           |                |           |           |  |
| ENVIRONMENT             | WORKING TEMP.                | -25~+85℃ (Refer to output load derating curve)                                                                                   |                          |           |                |           |           |                |           |           |  |
|                         | WORKING HUMIDITY             | 20%~90% RH non-condensing                                                                                                        |                          |           |                |           |           |                |           |           |  |
|                         | STORAGE TEMP., HUMIDITY      | -40~+105℃, 10~95% RH                                                                                                             |                          |           |                |           |           |                |           |           |  |
|                         | TEMP. COEFFICIENT            | ±0.03% / °C (0~50℃)                                                                                                              |                          |           |                |           |           |                |           |           |  |
|                         | VIBRATION                    | 10~500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes                                                           |                          |           |                |           |           |                |           |           |  |
| SAFETY & EMC            | WITHSTAND VOLTAGE            | I/P-O/P:1KVDC                                                                                                                    |                          |           |                |           |           |                |           |           |  |
|                         | ISOLATION RESISTANCE         | I/P-O/P: 100M Ohms / 500VDC                                                                                                      |                          |           |                |           |           |                |           |           |  |
| OTHERS                  | 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                                                                                                                             |                          |           |                |           |           |                |           |           |  |

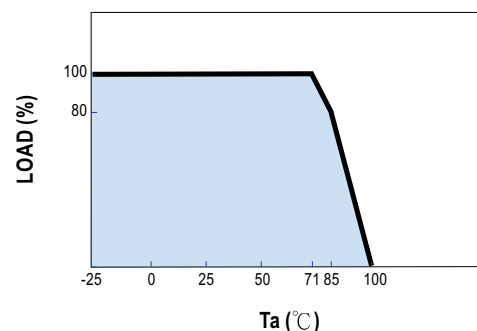
### Mechanical Specification



### Pin Configuration

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

### Derating Curve



### NOTE

- 1.All parameters are specified at normal input, rated load, 25℃ 70% RH. Ambient.
- 2.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf 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.