


## ■ Features :

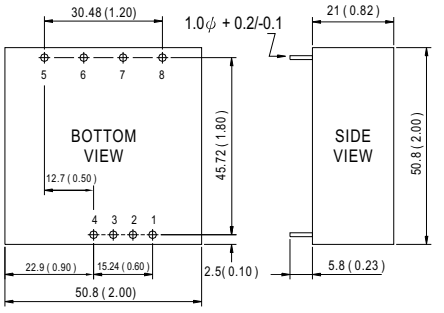
- 2:1 wide input range
- 4:1 wide input range(option)
- 1000VDC I/O isolation
- Built-in EMI filter
- Trimming output(±10%)
- Remote ON-OFF control
- Protections: Short circuit / Overload
- Cooling by free air convection
- Six-sided shield metal case
- Epoxy encapsulated
- 100% burn-in test
- Approvals: FCC / 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.) Note.2 | 100mVp-p | | | | | | | | |
| | LINE REGULATION Note.3 | ±0.5% | | | | | | | | |
| | LOAD REGULATION Note.4 | ±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 | | | | | | | | |
| | REMOTE CONTROL | Power on: R.C ~-Vin > 4.5~5.5VDC or open, Power off R.C~ -Vin <0.8VDC or short | | | | | | | | |
| | PROTECTION | Fuse recommended | | | | | | | | |
| PROTECTION (Note. 5) | 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. | -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% / ℃(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 / 25℃/ 70% RH | | | | | | | | |
| | EMI CONDUCTION & RADIATION | Compliance to EN55022 Class B, FCC part 15 Class B | | | | | | | | |
| | EMS IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A | | | | | | | | |
| 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

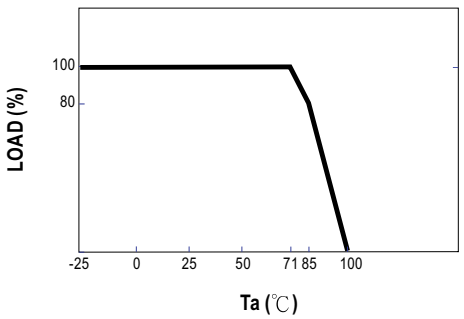
Unit: mm (inch)




## ■ Pin Configuration

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