



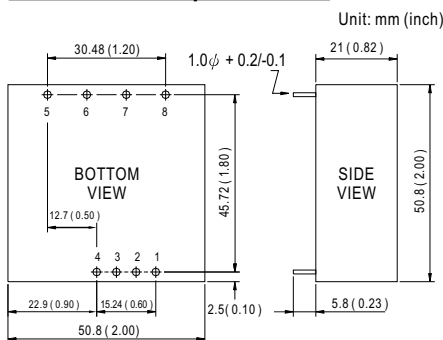
- Features :
- 2:1 wide input range
- 4:1 wide input range(option)
- 1000VDC I/O isolation
- Built-in EMI filter
- Trimming output(±10%)
- Remote ON-OFF control
- Protections: Short circuit / Overload
- Cooling by free air convection
- Six-sided shield metal case
- Epoxy encapsulated
- 100% burn-in test
- 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 | | | | | | | | | |
| | 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°C (Refer to output load derating curve) | | | | | | | | | |
| | WORKING HUMIDITY 20% ~ 90% RH non-condensing | | | | | | | | | |
| | STORAGE TEMP., HUMIDITY -40 ~ +105°C, 10 ~ 95% RH | | | | | | | | | |
| | TEMP. COEFFICIENT ±0.03% / °C (0 ~ 50°C) | | | | | | | | | |
| | 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°C / 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 | 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°C) | | | | | | | | | |
| | DIMENSION 50.8*50.8*21.0mm or 2"*2"*0.82" inch (L*W*H) | | | | | | | | | |
| | WEIGHT 110g | | | | | | | | | |

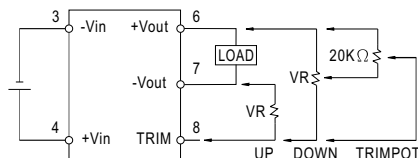
Mechanical Specification



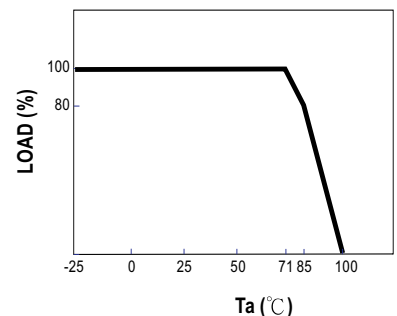
Pin Configuration

| 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 0.1uf & 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.