



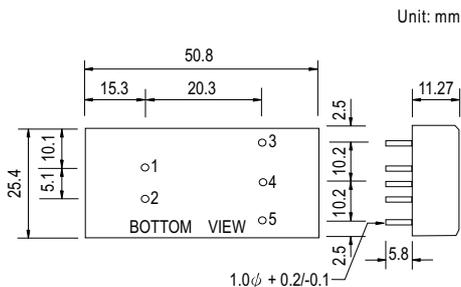
- Features :
- 2:1 wide input range
- 4:1 wide input range(option)
- 1000VDC I/O isolation
- 3000VDC I/O isolation(option)
- Built-in EMI filter
- Protections: Short circuit / Overload
- Cooling by free air convection
- Six-sided shield metal case
- 100% burn-in test
- Low cost / High reliability
- Approvals: FCC / CE



SPECIFICATION

| ORDER NO. | DKE10A-05 | DKE10B-05 | DKE10C-05 | DKE10A-12 | DKE10B-12 | DKE10C-12 | DKE10A-15 | DKE10B-15 | DKE10C-15 | DKE10A-24 | DKE10B-24 | DKE10C-24 | | | | | | | | | | | | |
|----------------------|------------------------------|-----------|-----------|----------------|-----------|-----------|--------------|-----------|-----------|----------------|-----------|-----------|---|--|--|--|--|--|--|--|--|--|--|--|
| OUTPUT | DC VOLTAGE | | | ±5V | | | ±12V | | | ±15V | | | ±24V | | | | | | | | | | | |
| | CURRENT RANGE | | | ±100 ~ ±1000mA | | | ±42 ~ ±420mA | | | ±33.3 ~ ±333mA | | | ±21 ~ ±210mA | | | | | | | | | | | |
| | RATED POWER | | | | | | | | | | | | 10W | | | | | | | | | | | |
| | RIPPLE & NOISE (max.) Note.2 | | | 50mVp-p | | | 60mVp-p | | | 60mVp-p | | | 80mVp-p | | | | | | | | | | | |
| | LINE REGULATION Note.3 | | | ±0.3% | | | | | | | | | | | | | | | | | | | | |
| | LOAD REGULATION Note.4 | | | ±0.5% | | | | | | | | | | | | | | | | | | | | |
| | VOLTAGE ACCURACY | | | ±2.0% | | | | | | | | | | | | | | | | | | | | |
| | SWITCHING FREQUENCY | | | 250KHz min. | | | | | | | | | | | | | | | | | | | | |
| INPUT | VOLTAGE RANGE | | | | | | | | | | | | A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 72VDC | | | | | | | | | | | |
| | EFFICIENCY (Typ.) | | | | | | | | | | | | 78% 81% 82% 80% 80% 83% 80% 80% 82% 82% 81% 85% | | | | | | | | | | | |
| | DC CURRENT | | | | | | | | | | | | Full load A: 1100mA B: 530mA C: 270mA No load A: 30mA B: 16mA C: 8mA | | | | | | | | | | | |
| | FILTER | | | | | | | | | | | | Pi network | | | | | | | | | | | |
| | PROTECTION | | | | | | | | | | | | Fuse recommended | | | | | | | | | | | |
| PROTECTION (Note. 5) | OVER CURRENT | | | | | | | | | | | | 160% ~ 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 ~ +71°C (Refer to output load derating curve) WORKING HUMIDITY 20% ~ 90% RH non-condensing STORAGE TEMP., HUMIDITY -25 ~ +105°C, 10 ~ 95% RH TEMP. COEFFICIENT ±0.03% / °C (0 ~ 50°C) VIBRATION 10 ~ 500Hz, 2G 10min./1cycle, 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 | MTBF | | | | | | | | | | | | 500Khrs min. MIL-HDBK-217F(25°C) | | | | | | | | | | | |
| | DIMENSION | | | | | | | | | | | | 50.8*25.4*11.2mm or 2**1**0.44" inch (L*W*H) | | | | | | | | | | | |
| | WEIGHT | | | | | | | | | | | | 32g | | | | | | | | | | | |

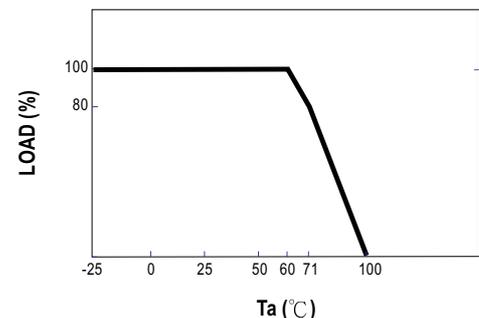
Mechanical Specification



Pin Configuration

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

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.