



■ Features :

- 2:1 wide input range
- 4:1 wide input range(optionl)
- 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
- 2 years warranty

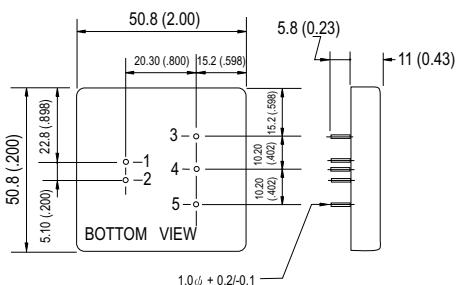


SPECIFICATION

| ORDER NO. | DKE15A-05 | DKE15B-05 | DKE15C-05 | DKE15A-12 | DKE15B-12 | DKE15C-12 | DKE15A-15 | DKE15B-15 | DKE15C-15 | DKE15A-24 | DKE15B-24 | DKE15C-24 | |
|----------------------|------------------------------|--|-----------|-----------|----------------|-----------|-----------|--------------|-----------|-----------|----------------|-----------|-----|
| OUTPUT | DC VOLTAGE | ±5V | | | ±12V | | | ±15V | | | ±24V | | |
| | CURRENT RANGE | ±150 ~ ±1500mA | | | ±62.5 ~ ±625mA | | | ±50 ~ ±500mA | | | ±31.3 ~ ±313mA | | |
| | RATED POWER | 15W | | | | | | | | | | | |
| | 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 | 150KHz min. | | | | | | | | | | | |
| INPUT | VOLTAGE RANGE | A: 9 ~ 18VDC B: 18~36VDC C: 36~72VDC | | | | | | | | | | | |
| | EFFICIENCY (Typ.) | 81% | 83% | 79% | 82% | 83% | 82% | 82% | 83% | 82% | 82% | 84% | 85% |
| | DC CURRENT | Full load A: 1700mA B: 800mA C: 400mA No load A: 40mA B: 20mA C: 10mA | | | | | | | | | | | |
| | 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 | 300Khrs min. MIL-HDBK-217F (25°C) | | | | | | | | | | | |
| | DIMENSION | 50.8*50.8*11.0mm or 2"*2"*0.43" inch (L*W*H) | | | | | | | | | | | |
| | WEIGHT | 65g | | | | | | | | | | | |

■ Mechanical Specification

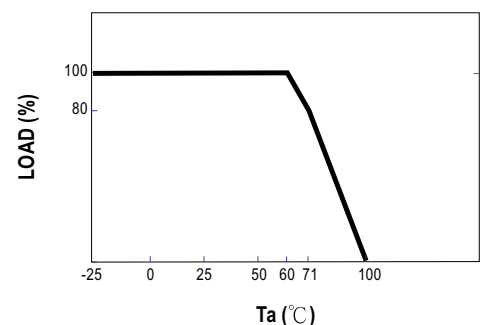
Unit: mm (inch)



■ 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.