



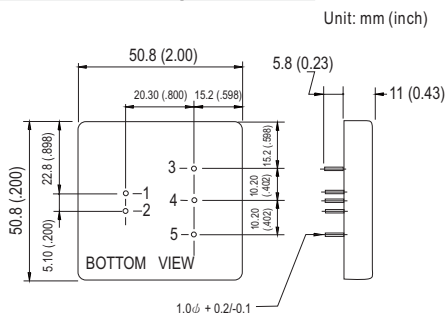
- Features :
  - 2:1 wide input range
  - 4:1 wide input range(option)
  - 1000VDC I/O isolation
  - 3000VDC I/O isolation(option)
  - Built-in EMI filter
  - Protections: Short circuit / Overload
  - Cooling by free air convection
  - Six-sided shield metal case
  - 100% burn-in test
  - Low cost / High reliability
  - Approvals: FCC / EAC / CE / UKCA
  - 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                   |           |           | ±12V           |           |           | ±15V         |           |           | ±24V           |           |           |  |  |  |
|                      | CURRENT RANGE                |           |           | ±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<br>No load A: 40mA B: 20mA C: 10mA   |  |  |
|                      | FILTER                       |           |           |                |           |           |              |           |           |                |           |           | PI network   |  |  |
|                      | PROTECTION                   |           |           |                |           |           |              |           |           |                |           |           | Fuse recommended   |  |  |
| PROTECTION (Note. 5) | OVER CURRENT                 |           |           |                |           |           |              |           |           |                |           |           | 160% ~ 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~+71°C (Refer to "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         | SAFETY STANDARDS             |           |           |                |           |           |              |           |           |                |           |           | EAC TP TC 020/2011 approved  |  |  |
|                      | WITHSTAND VOLTAGE            |           |           |                |           |           |              |           |           |                |           |           | I/P-O/P:1KVDC  |  |  |
|                      | ISOLATION RESISTANCE         |           |           |                |           |           |              |           |           |                |           |           | I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH  |  |  |
|                      | EMC EMISSION                 |           |           |                |           |           |              |           |           |                |           |           | Compliance to BS EN/EN55032 Class A, FCC part 15 Class A, EAC TP TC 020  |  |  |
|                      | EMC IMMUNITY                 |           |           |                |           |           |              |           |           |                |           |           | Compliance to BS EN/EN61000-4-2,3,4,5,6,8, light industry level, criteria A, EAC TP TC 020                                       |  |  |
| 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  |  |  |

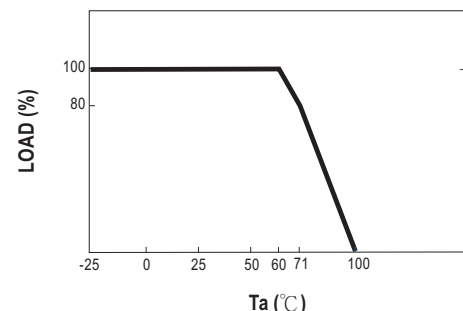
### Mechanical Specification



### 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.
- ※ Product Liability Disclaimer : For detailed information, please refer to <https://www.meanwell.com/serviceDisclaimer.aspx>