



### Features :

- 2:1 wide input range
- 4:1 wide input range(option)
- 1000VDC I/O isolation
- 3000VDC I/O isolation(option)
- Input Pi network 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
- 1 year warranty

勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-54151736  
 勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

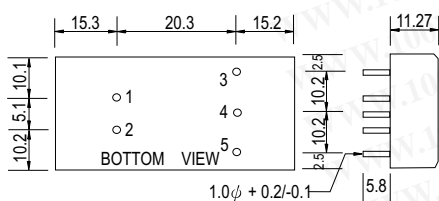


### SPECIFICATION

| ORDER NO.                      | DKA15A-05                               | DKA15B-05 | DKA15C-05  | DKA15A-12 | DKA15B-12                   | DKA15C-12 | DKA15A-15    | DKA15B-15 | DKA15C-15 |     |                         |  |
|--------------------------------|---|-----------|--|-----------|-----------------------------|-----------|--------------|-----------|-----------|-----|-------------------------|--|
| <b>OUTPUT</b>                  | <b>DC VOLTAGE</b>                       |           | ±5V  |           | ±12V                        |           | ±15V         |           |           |     |                         |  |
|                                | <b>CURRENT RANGE</b>                    |           | ±150 ~ ±1500mA   |           | ±62.5 ~ ±625mA              |           | ±50 ~ ±500mA |           |           |     |                         |  |
|                                | <b>RATED POWER</b>                      |           | 15W  |           |                             |           |              |           |           |     |                         |  |
|                                | <b>RIPPLE &amp; NOISE (max.)</b> Note.2 |           | 50mVp-p  |           | 60mVp-p                     |           | 60mVp-p      |           |           |     |                         |  |
|                                | <b>LINE REGULATION</b> Note.3           |           | ±0.2%  |           |                             |           |              |           |           |     |                         |  |
|                                | <b>LOAD REGULATION</b> Note.4           |           | ±0.5%  |           |                             |           |              |           |           |     |                         |  |
|                                | <b>VOLTAGE ACCURACY</b>                 |           | ±2.0%  |           |                             |           |              |           |           |     |                         |  |
|                                | <b>SWITCHING FREQUENCY</b>              |           | 150KHz min.  |           |                             |           |              |           |           |     |                         |  |
| <b>INPUT</b>                   | <b>VOLTAGE RANGE</b>                    |           | A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 72VDC   |           |                             |           |              |           |           |     |                         |  |
|                                | <b>EFFICIENCY (Typ.)</b>                |           | 80%  | 80%       | 82%                         | 83%       | 80%          | 82%       | 83%       | 80% | 82%                     |  |
|                                | <b>DC CURRENT</b>                       |           | Full load  |           | A: 1600mA B: 800mA C: 400mA |           | No load      |           |           |     | A: 30mA B: 30mA C: 15mA |  |
|                                | <b>FILTER</b>                           |           | Pi network   |           |                             |           |              |           |           |     |                         |  |
| <b>PROTECTION</b><br>(Note. 5) | <b>OVER CURRENT</b>                     |           | 110% ~ 250% rated output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed         |           |                             |           |              |           |           |     |                         |  |
|                                | <b>SHORT CIRCUIT</b>                    |           | All output equipped with short circuit<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed |           |                             |           |              |           |           |     |                         |  |
| <b>ENVIRONMENT</b>             | <b>WORKING TEMP.</b>                    |           | -25 ~ +71°C (Refer to output load derating curve)  |           |                             |           |              |           |           |     |                         |  |
|                                | <b>WORKING HUMIDITY</b>                 |           | 20% ~ 90% RH non-condensing  |           |                             |           |              |           |           |     |                         |  |
|                                | <b>STORAGE TEMP., HUMIDITY</b>          |           | -25 ~ +105°C, 10 ~ 95% RH  |           |                             |           |              |           |           |     |                         |  |
|                                | <b>TEMP. COEFFICIENT</b>                |           | ±0.03% / °C (0 ~ 50°C)   |           |                             |           |              |           |           |     |                         |  |
|                                | <b>VIBRATION</b>                        |           | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes  |           |                             |           |              |           |           |     |                         |  |
| <b>SAFETY &amp; EMC</b>        | <b>WITHSTAND VOLTAGE</b>                |           | I/P-O/P:1KVDC  |           |                             |           |              |           |           |     |                         |  |
|                                | <b>ISOLATION RESISTANCE</b>             |           | I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH  |           |                             |           |              |           |           |     |                         |  |
|                                | <b>EMI CONDUCTION &amp; RADIATION</b>   |           | Compliance to EN55022 Class B, FCC part 15 Class B   |           |                             |           |              |           |           |     |                         |  |
|                                | <b>EMS IMMUNITY</b>                     |           | Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A  |           |                             |           |              |           |           |     |                         |  |
| <b>OTHERS</b>                  | <b>MTBF</b>                             |           | 300khrs min. MIL-HDBK-217F (25°C)  |           |                             |           |              |           |           |     |                         |  |
|                                | <b>DIMENSION</b>                        |           | 50.8*25.4*11.27mm or 2**1**0.44" inch (L*W*H)  |           |                             |           |              |           |           |     |                         |  |
|                                | <b>WEIGHT</b>                           |           | 60g  |           |                             |           |              |           |           |     |                         |  |

### Mechanical Specification

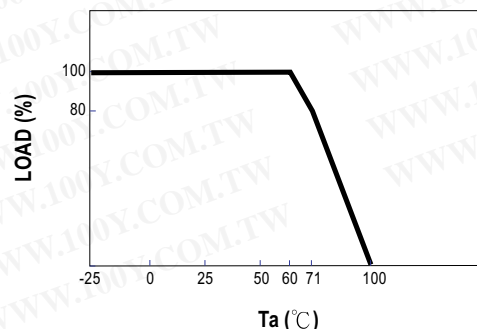
Unit: mm (inch)



### 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.