



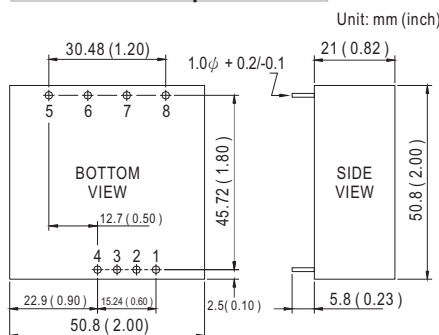
- Features :
  - 2:1 wide input range
  - 4:1 wide input range(option)
  - 1000VDC I/O isolation
  - Built-in EMI filter
  - Remote ON-OFF control
  - Protections: Short circuit / Overload
  - Cooling by free air convection
  - Six-sided shield metal case
  - Epoxy encapsulated
  - 100% burn-in test
  - Approvals: FCC / EAC / CE / UKCA
  - 2 years warranty



**SPECIFICATION**

| ORDER NO.            | TKA30A-B                     | TKA30B-B   | TKA30C-B                   | TKA30A-C     | TKA30B-C     | TKA30C-C |       |
|----------------------|------------------------------|--|----------------------------|--------------|--------------|----------|-------|
| OUTPUT               | DC VOLTAGE                   | +5V  | ±12V                       | +5V          | ±15V         |          |       |
|                      | CURRENT RANGE                | 700 ~ 3500mA   | ±62 ~ ±310mA               | 700 ~ 3500mA | ±50 ~ ±250mA |          |       |
|                      | RATED POWER                  | 25W  |                            |              |              |          |       |
|                      | RIPPLE & NOISE (max.) Note.2 | 100mVp-p   |                            |              |              |          |       |
|                      | LINE REGULATION Note.3       | +0.5%  | ±1.0%                      | ±1.0%        | ±0.5%        | ±1.0%    | ±1.0% |
|                      | LOAD REGULATION Note.4       | +5V: ±2.0%, ±V <sub>i</sub> : ±5.0%  |                            |              |              |          |       |
|                      | VOLTAGE ACCURACY             | +5V: ±2.0%, ±V <sub>i</sub> : ±5.0%  |                            |              |              |          |       |
|                      | SWITCHING FREQUENCY          | 100KHz min.  |                            |              |              |          |       |
| INPUT                | VOLTAGE RANGE                | A: 9 ~ 18VDC B: 18~36VDC C: 36~72VDC   |                            |              |              |          |       |
|                      | EFFICIENCY (Typ.)            | 80%  | 82%                        | 82%          | 80%          | 82%      | 82%   |
|                      | DC CURRENT                   | Full load  | A: 2.61A B: 1.27A C: 0.64A |              |              |          |       |
|                      |                              | No load  | A: 40mA B: 18mA C: 10mA    |              |              |          |       |
|                      | FILTER                       | Pi network   |                            |              |              |          |       |
| PROTECTION           | Fuse recommended             |  |                            |              |              |          |       |
| PROTECTION (Note. 5) | OVERLOAD                     | 110 ~ 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.                | -40 ~ +85°C (Refer to "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         | 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 B, FCC part 15 Class B, 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               | 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   |                            |              |              |          |       |

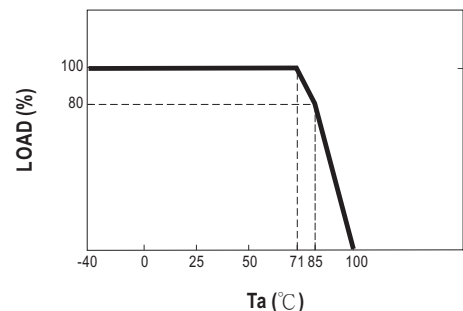
■ Mechanical Specification



■ Pin Configuration

| Pin No. | Output |
|---------|--------|
| 1       | R.C    |
| 2       | No Pin |
| 3       | -Vin   |
| 4       | +Vin   |
| 5       | +Vout  |
| 6       | +5V    |
| 7       | COM    |
| 8       | -Vout  |

■ Derating Curve



**NOTE**

- All parameters are specified at normal input, rated load, 25°C 70% RH ambient.
  - Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.
  - Line regulation is measured from low line to high line at rated load.
  - Load regulation is measured from 20% to 100% rated load.
  - 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>