



#### ■ Features :

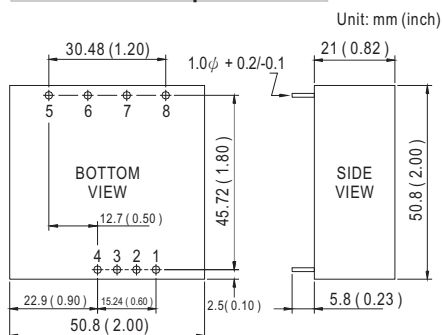
- 2:1 wide input range
- 4:1 wide input range(option)
- 1000VDC I/O isolation
- Built-in EMI filter
- Remote ON-OFF control
- Protections: Short circuit / Overload
- Cooling by free air convection
- Six-sided shield metal case
- Epoxy encapsulated
- 100% burn-in test
- Approvals: FCC / EAC / CE / UKCA
- 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%    |
|                         | LOAD REGULATION Note.4       | +5V: ±2.0%, ±V <sub>i</sub> : ±5.0%                                                                                              |              |              |              |          |
|                         | VOLTAGE ACCURACY             | +5V: ±2.0%, ±V <sub>i</sub> : ±5.0%                                                                                              |              |              |              |          |
| INPUT                   | SWITCHING FREQUENCY          | 100KHz min.                                                                                                                      |              |              |              |          |
|                         | VOLTAGE RANGE                | A: 9 ~ 18VDC B: 18~36VDC C: 36~72VDC                                                                                             |              |              |              |          |
|                         | EFFICIENCY (Typ.)            | 80%                                                                                                                              | 82%          | 82%          | 80%          | 82%      |
|                         | DC CURRENT                   | Full load A: 2.61A B: 1.27A C: 0.64A<br>No load A: 40mA B: 18mA C: 10mA                                                          |              |              |              |          |
|                         | FILTER                       | Pi network                                                                                                                       |              |              |              |          |
| PROTECTION<br>(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                                                                                                                             |              |              |              |          |

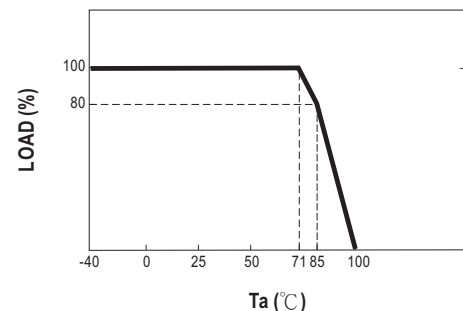
#### ■ Mechanical Specification



#### ■ 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

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 20% 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>

# Mouser Electronics

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MEAN WELL:

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