



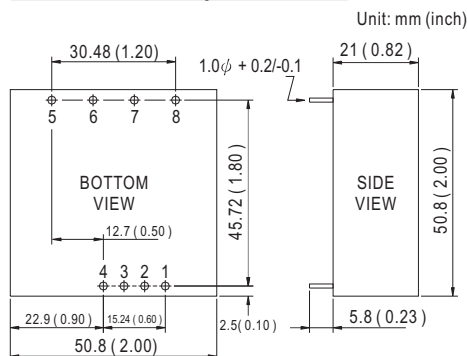
- Features :
  - 2:1 wide input range
  - 4:1 wide input range(option)
  - 1000VDC I/O isolation
  - Built-in EMI filter
  - Remote ON-OFF control
  - Protections: Short circuit / Overload
  - Cooling by free air convection
  - Six-sided shield metal case
  - Epoxy encapsulated
  - 100% burn-in test
  - Approvals: FCC / CE
  - 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 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.	-40 ~ +85°C (Refer to output load 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	WITHSTAND VOLTAGE	I/P-O/P:1KVDC					
	ISOLATION RESISTANCE	I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH					
	EMC EMISSION	Compliance to EN55022 Class B, FCC part 15 Class B					
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A					
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					

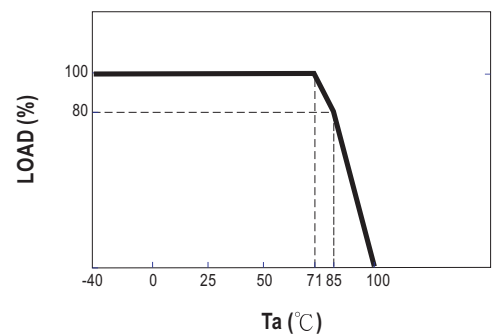
### Mechanical Specification



### 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.