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Your Reliable Power Partner

TKA30 series

DC-DC Converter

INDUSTRIAL CONTROL SYSTEMS

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25W DC-DC Triple Output Converter — TKA30 series



Features :

- 2:1 wide input range
- 4:1 wide input range(option)
- 1500VDC 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

GTIN CODE

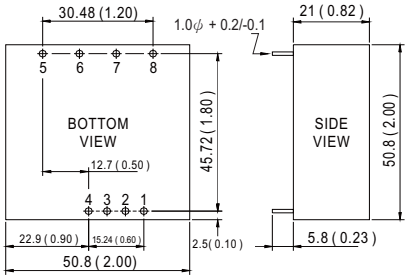
MW Search: https://www.meanwell.com/serviceGTIN.aspx

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	+1 0.5%	±1.0%	±1.0%	±0.5%	±1.0%	±1.0%
	LOAD REGULATION Note.4	+5V: ±2.0%, ±V1: ±5.0%					
	VOLTAGE ACCURACY	+5V: ±2.0%, ±V1: ±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℃ (Refer to "Derating Curve")					
	WORKING HUMIDITY	20% ~ 90% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-40 ~ +105℃, 10 ~ 95% RH					
	TEMP. COEFFICIENT	±0.03% / ℃ (0 ~ 50℃)					
	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:1.5KVDC					
	ISOLATION RESISTANCE	I/P-O/P: 100M Ohms / 500VDC / 25℃/ 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℃)					
	DIMENSION	50.8*50.8*21.0mm or 2"*2"*0.82" inch (L*W*H)					
	PACKING	110g ; 5pcs/per tube, 140pcs/28 tube/per carton					

Mechanical Specification

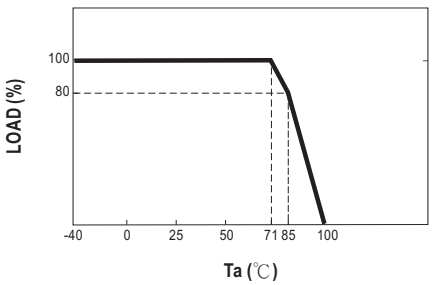
Unit: mm (inch)



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

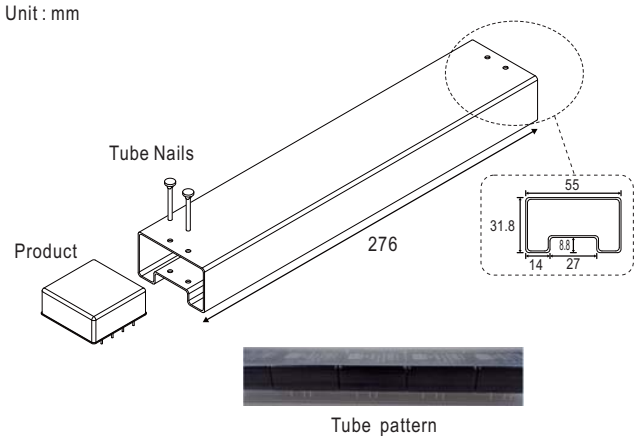
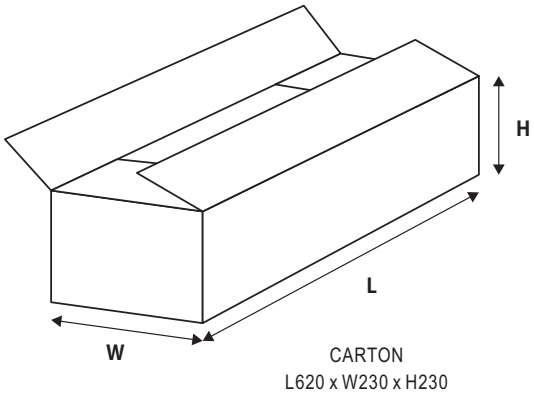


NOTE

1.All parameters are specified at normal input, rated load, 25℃ 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

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■ Packing

Standard Tube Packing	MPQ Per Tube (PCS)	One Tube G.W.	Max. Q'TY/ Carton(PCS)	One Carton G.W.
Unit : mm  Tube pattern  CARTON L620 x W230 x H230	5	600g	140	17.6Kg

■ Installation Manual

Please refer to : http://www.meanwell.com/manual.html