25~30W DC-DC Dual Output Converter

DKA30 series



Features :

- 2:1 wide input range
- 4:1 wide input range(option)
- 1500VDC I/O isolation
- Built-in EMI filter
- Trimming output(±10%)
- 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

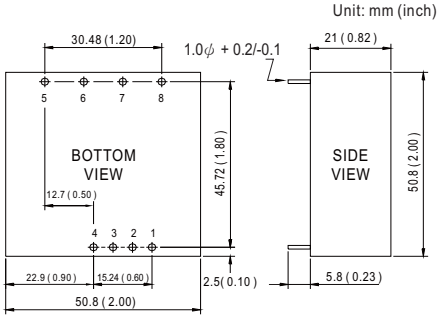
GTIN CODE

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

SPECIFICATION

ORDER NO.		DKA30A-05	DKA30B-05	DKA30C-05	DKA30A-12	DKA30B-12	DKA30C-12	DKA30A-15	DKA30B-15	DKA30C-15
OUTPUT	DC VOLTAGE	±5V			±12V			±15V		
	CURRENT RANGE	±250 ~ ±2500mA			±125 ~ ±1250mA			±100 ~ ±1000mA		
	RATED POWER	25W			30W			30W		
	RIPPLE & NOISE (max.) Note.2	100mVp-p								
	LINE REGULATION Note.3	±0.5%								
	LOAD REGULATION Note.4	±0.5%								
	VOLTAGE ACCURACY	±2.0%								
	SWITCHING FREQUENCY	100KHz min.								
	EXTERNAL TRIM Adj. RANGE	±10%								
INPUT	VOLTAGE RANGE	A: 9 ~ 18VDC	B: 18 ~ 36VDC	C: 36 ~ 72VDC						
	EFFICIENCY (Typ.)	80%	80%	80%	80%	83%	81%	80%	83%	81%
	DC CURRENT	Full load	A: 3.2A	B: 1.5A	C: 0.77A					
		No load	A: 40mA	B: 20mA	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 A, FCC part 15 Class A, 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								

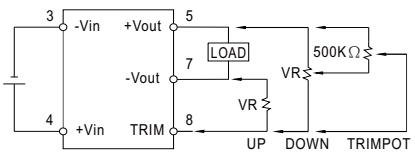
Mechanical Specification



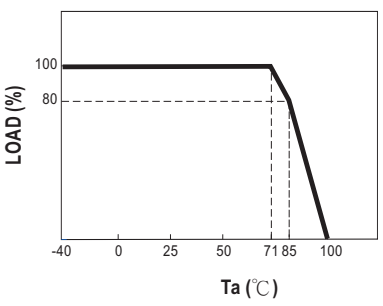
Pin Configuration

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

External Output Trimming



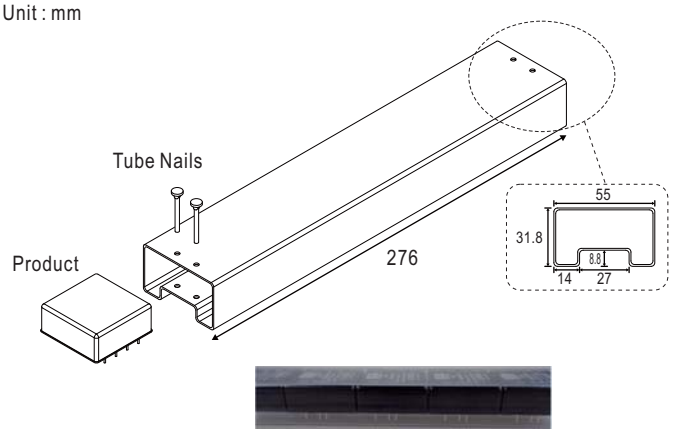
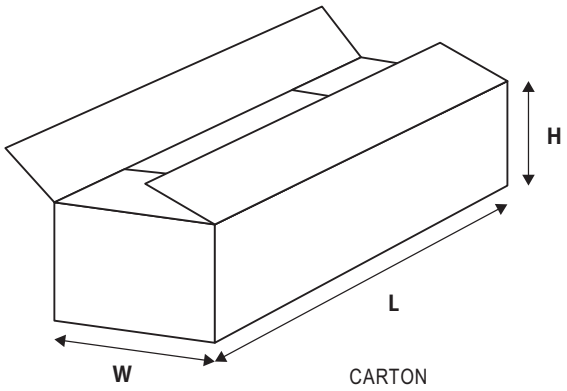
Derating Curve



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 10% 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

■ 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