



25~30W DC-DC Dual Output Converter

DKA30 series



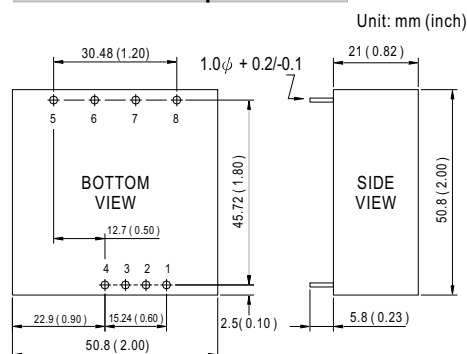
■ Features :

- 2:1 wide input range
- 4:1 wide input range (optional)
- 1000VDC I/O isolation
- Input Pi network filter
- Remote ON-OFF control
- Protections: Short circuit / Over load
- Free air convection
- Six-sided shield metal case
- Epoxy encapsulated
- 100% burn-in test
- 1 year warranty

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%					
	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 (Note. 5)	OVER LOAD		110~250% rated output power								
			Protection type : Hiccup mode, recovers automatically after fault condition is removed								
	SHORT CIRCUIT		All output equipped with short circuit								
ENVIRONMENT	WORKING TEMP.		-25~+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								
OTHERS	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								

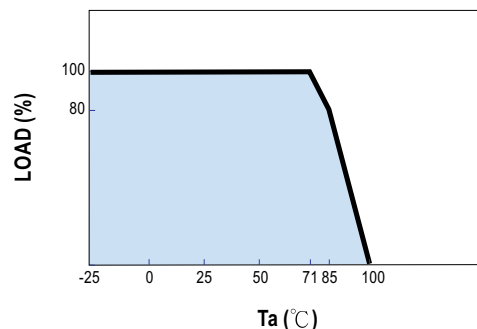
■ Mechanical Specification



■ Pin Configuration

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

■ 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 10% to 100% rated load.
- 5.Please prevent the converter from operating in overload or short circuit condition for more than 30 seconds.