



GRUBER Electric Ges.m.b.H. ■ Features :

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Komponenten für Steuerungsbau und Industrieelektronik



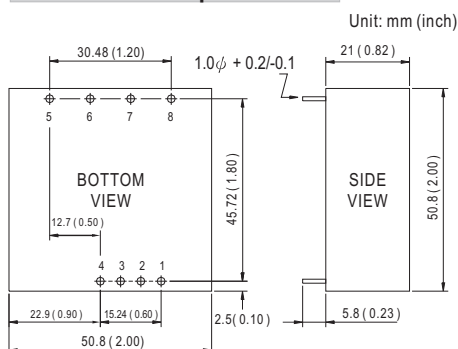
- 2:1 wide input range
- 4:1 wide input range(option)
- 1000VDC I/O isolation
- Built-in EMI filter
- Trimming output(±10%)
- Remote ON-OFF control
- Protections: Short circuit / Overload
- Cooling by free air convection
- Six-sided shield metal case
- Epoxy encapsulated
- 100% burn-in test
- Approvals: FCC / CE
- 2 years 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	±2.0%									
	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 output load derating curve)									
	WORKING HUMIDITY	20% ~ 90% RH non-condensing									
	STORAGE TEMP., HUMIDITY	-40 ~ +105℃, 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.03% / °C (0 ~ 50℃)									
	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℃ / 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℃)									
	DIMENSION	50.8*50.8*21.0mm or 2"*2"*0.82" inch (L*W*H)									
	WEIGHT	110g									

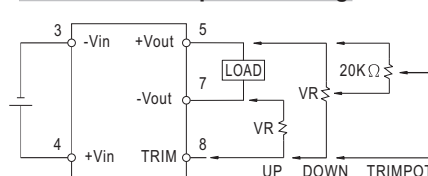
Mechanical Specification



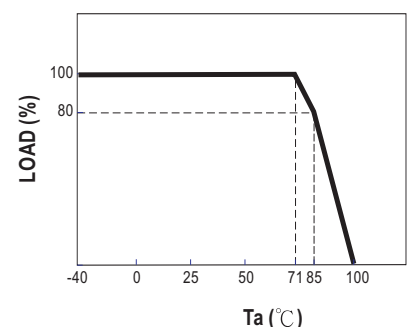
Pin Configuration

Pin No.	Output	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°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.