



10W DC-DC Regulated Dual Output Converter

DKE10 series



■ Features :

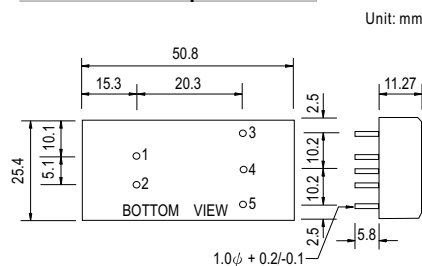
- 2:1 wide input range
- 4:1 wide input range(option)
- 1000VDC I/O isolation
- 3000VDC I/O isolation(option)
- Built-in EMI filter
- Protections: Short circuit / Overload
- Cooling by free air convection
- Six-sided shield metal case
- 100% burn-in test
- Low cost / High reliability
- Approvals: FCC / CE
- 2 years warranty



SPECIFICATION

ORDER NO.	DKE10A-05	DKE10B-05	DKE10C-05	DKE10A-12	DKE10B-12	DKE10C-12	DKE10A-15	DKE10B-15	DKE10C-15	DKE10A-24	DKE10B-24	DKE10C-24			
OUTPUT	DC VOLTAGE			±5V			±12V			±15V			±24V		
	CURRENT RANGE			±100 ~ ±1000mA			±42 ~ ±420mA			±33.3 ~ ±333mA			±21 ~ ±210mA		
	RATED POWER			10W											
	RIPPLE & NOISE (max.) Note.2			50mVp-p			60mVp-p			60mVp-p			80mVp-p		
	LINE REGULATION Note.3			±0.3%											
	LOAD REGULATION Note.4			±0.5%											
	VOLTAGE ACCURACY			±2.0%											
	SWITCHING FREQUENCY			250KHz min.											
INPUT	VOLTAGE RANGE			A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 72VDC											
	EFFICIENCY (Typ.)			78%	81%	82%	80%	80%	83%	80%	80%	82%	82%	81%	85%
	DC CURRENT			Full load A: 1100mA B: 530mA C: 270mA			No load A: 30mA B: 16mA C: 8mA								
	FILTER			Pi network											
	PROTECTION			Fuse recommended											
PROTECTION (Note. 5)	OVER CURRENT			160% ~ 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.			-25 ~ +71°C (Refer to output load derating curve)											
	WORKING HUMIDITY			20% ~ 90% RH non-condensing											
	STORAGE TEMP., HUMIDITY			-25 ~ +105°C, 10 ~ 95% RH											
	TEMP. COEFFICIENT			±0.03% / °C (0 ~ 50°C)											
	VIBRATION			10 ~ 500Hz, 2G 10min./1cycle, 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											
	EMI CONDUCTION & RADIATION			Compliance to EN55022 Class B, FCC part 15 Class B											
	EMS IMMUNITY			Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A											
OTHERS	MTBF			500Khrs min. MIL-HDBK-217F(25°C)											
	DIMENSION			50.8*25.4*11.2mm or 2**1**0.44" inch (L*W*H)											
	WEIGHT			32g											

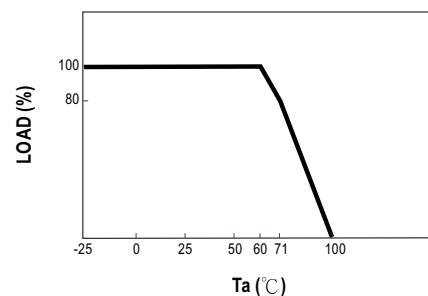
■ Mechanical Specification



■ Pin Configuration

Pin No.	Output
1	+Vin
2	-Vin
3	+Vout
4	COM
5	-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 10% to 100% rated load.
5. Please prevent the converter from operating in overload or short circuit condition for more than 30 seconds.

File Name: DKE10-SPEC 2008-05-20

We are here for you. Addresses and Contacts.

Headquarter Switzerland:

Angst+Pfister Sensors and Power AG
Thurgauerstrasse 66
CH-8050 Zurich
Phone +41 44 877 35 00
sensorsandpower@angst-pfister.com

Office Germany:

Angst+Pfister Sensors and Power Deutschland GmbH
Edisonstraße 16
D-85716 Unterschleißheim
Phone +49 89 374 288 87 00
sensorsandpower.de@angst-pfister.com

Scan here and get an overview of personal contacts!



sensorsandpower.angst-pfister.com
