



3W DC-DC Regulated Dual Output Converter

DCW03 series



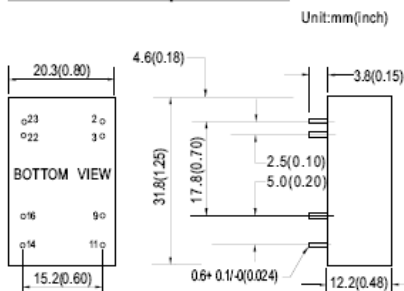
- Features :
 - 2:1 wide input range
 - 4:1 wide input range(option)
 - 1000VDC I/O isolation
 - 3000VDC I/O isolation(option)
 - Built-in EMI filter
 - Protections: Short circuit / Overload
 - Cooling by free air convection
 - Five-sided shield metal case
 - 100% burn-in test
 - Low cost / High reliability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



SPECIFICATION

ORDER NO.	DCW03A-05	DCW03B-05	DCW03C-05	DCW03A-12	DCW03B-12	DCW03C-12	DCW03A-15	DCW03B-15	DCW03C-15	
OUTPUT	DC VOLTAGE	±5V			±12V			±15V		
	CURRENT RANGE	±30 ~ ±300mA			±12.5 ~ ±125mA			±10 ~ ±100mA		
	RATED POWER	3W								
	RIPPLE & NOISE (max.) Note.2	50mVp-p			60mVp-p			60mVp-p		
	LINE REGULATION Note.3	±0.5%								
	LOAD REGULATION Note.4	±0.5%								
	VOLTAGE ACCURACY	±2.0%								
INPUT	SWITCHING FREQUENCY	50KHz min.								
	VOLTAGE RANGE	A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 72VDC								
	EFFICIENCY (Typ.)	74%	75%	76%	80%	80%	82%	80%	80%	82%
	DC CURRENT	Full load A: 338mA B: 167mA C: 83mA No load A: 18mA B: 10mA C: 5mA								
	FILTER	Pi network								
PROTECTION (Note. 5)	PROTECTION	Fuse recommended								
	OVERLOAD	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)								
SAFETY & EMC	VIBRATION	10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes								
	WITHSTAND VOLTAGE	I/P-O/P: 1KVDC								
	ISOLATION RESISTANCE	I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH								
	ISOLATION CAPACITANCE	80pF max.								
OTHERS	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	900khrs min. MIL-HDBK-217F (25°C)								
	DIMENSION	31.8*20.3*12.2mm or 1.25**0.80**0.48" inch (L*W*H)								
	WEIGHT	15g								

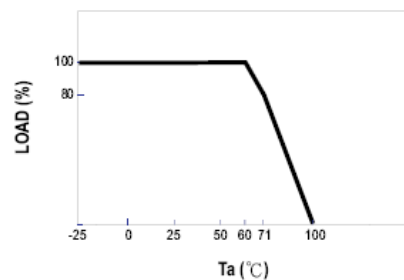
Mechanical Specification



Pin Configuration

Pin No.	Output
2 & 3	-Vin
9	COM
11	-Vout
14	+Vout
16	COM
22 & 23	+Vin

Derating Curve



NOTE

- All parameters are specified at normal input, rated load, 25°C 70% RH Ambient.
- Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uF & 47uF capacitor.
- Line regulation is measured from low line to high line at rated load.
- Load regulation is measured from 10% to 100% rated load.
- Please prevent the converter from operating in overload or short circuit condition for more than 30 seconds.