



- 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

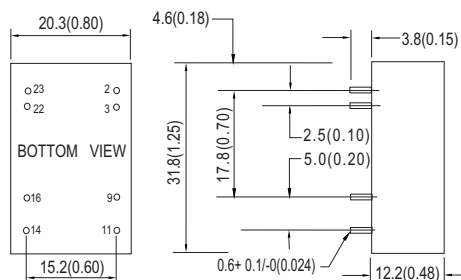


SPECIFICATION

| 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% | | | | | | | | |
| SWITCHING FREQUENCY | 50KHz min. | | | | | | | | | |
| INPUT | VOLTAGE RANGE | A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 72VDC | | | | | | | | |
| | EFFICIENCY (Typ.) | 74% | 75% | 76% | 80% | 80% | 82% | 80% | 80% | 78% |
| | DC CURRENT | Full load A: 338mA B: 167mA C: 83mA No load A: 18mA B: 10mA C: 5mA | | | | | | | | |
| | FILTER | Pi network | | | | | | | | |
| | PROTECTION | Fuse recommended | | | | | | | | |
| PROTECTION (Note. 5) | 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. | -40 ~ + 71°C (Refer to "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 | SAFETY STANDARDS | EAC TP TC 004 approved | | | | | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:1KVDC | | | | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH | | | | | | | | |
| | ISOLATION CAPACITANCE | 80pF max. | | | | | | | | |
| | EMC EMISSION | Compliance to EN55032 Class B, FCC part 15 Class B, EAC TP TC 020 | | | | | | | | |
| OTHERS | EMC IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A, EAC TP TC 020 | | | | | | | | |
| | 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

Unit:mm(inch)

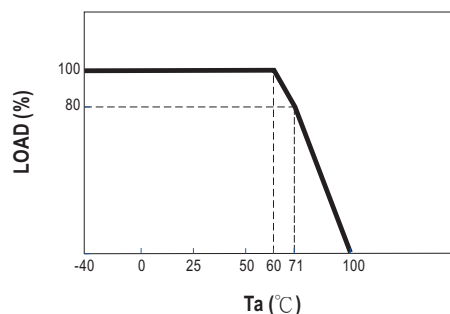


Pin Size is Tolerance 0.5±0.05mm, Tolerance .X or .XX= ±0.5mm

Pin Configuration

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

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.