



■ Features :

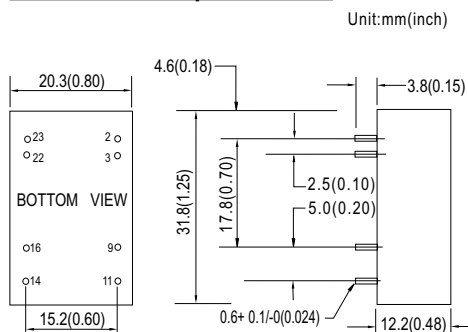
- 2:1 wide input range
- 4:1 wide input range(option)
- 1000VDC I/O isolation
- 3000VDC I/O isolation(option)
- Built-in EMI filter
- Protections: Short circuit / Overload
- Cooling by free air convection
- Five-sided shield metal case
- 100% burn-in test
- Low cost / High reliability
- Approvals: FCC / 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% 82% |
| | 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. | | | | | | | | | | -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./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°C / 70% RH |
| | ISOLATION CAPACITANCE | | | | | | | | | | 80pF max. |
| | 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 |

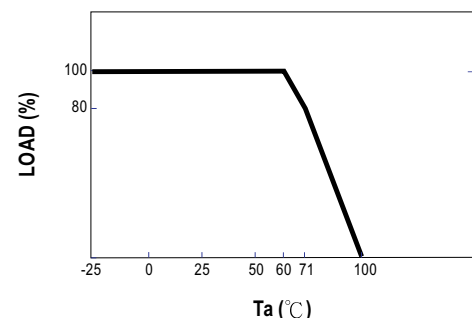
■ Mechanical Specification



■ Pin Configuration

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

■ Derating Curve



NOTE

- 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.