



Features :

- 2:1 wide input range
- 1000VDC I/O isolation
- Built-in EMI filter
- Protections: Short circuit / Overload
- Cooling by free air convection
- Five-sided shield metal case
- 100% full load burn-in test
- Low cost / High reliability
- 2 years warranty

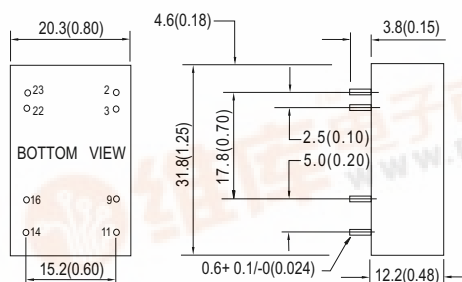
SPECIFICATION



| ORDER NO. | | DCW08A-05 | DCW08B-05 | DCW08C-05 | DCW08A-12 | DCW08B-12 | DCW08C-12 | DCW08A-15 | DCW08B-15 | DCW08C-15 | |
|----------------------|------------------------------|--|----------------------------|-----------|--------------|-----------|-----------|--------------|-----------|-----------|--|
| OUTPUT | DC VOLTAGE | ±5V | | | ±12V | | | ±15V | | | |
| | CURRENT RANGE | ±160 ~ ±800mA | | | ±66 ~ ±335mA | | | ±52 ~ ±267mA | | | |
| | RATED POWER | 8W | | | | | | | | | |
| | 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.) | 75% | 78% | 78% | 80% | 80% | 80% | 80% | 80% | 80% | |
| | DC CURRENT | Full load | A: 888mA B: 426mA C: 215mA | | | | | | | | |
| | | No load | A: 50mA B: 25mA C: 15mA | | | | | | | | |
| | FILTER | Pi network | | | | | | | | | |
| PROTECTION | | Fuse recommended | | | | | | | | | |
| PROTECTION Note.5 | OVERLOAD | 110 ~ 250% rated output load | | | | | | | | | |
| | | Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | | | | | | | |
| | SHORT CIRCUIT | All output equipped with over current protection | | | | | | | | | |
| | | Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | | | | | | | |
| ENVIRONMENT | WORKING TEMP. | -25 ~ +71℃ (refer to output load derating curve) | | | | | | | | | |
| | WORKING HUMIDITY | 20% ~ 90% RH non-condensing | | | | | | | | | |
| | STORAGE TEMP., HUMIDITY | -25 ~ +105℃, 10 ~ 95% RH | | | | | | | | | |
| | TEMP. COEFFICIENT | ±0.03% / ℃ (0 ~ 50℃) | | | | | | | | | |
| | 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℃ / 70% RH | | | | | | | | | |
| | ISOLATION CAPACITANCE | 250pF 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℃) | | | | | | | | | |
| | DIMENSION | 31.8*20.3*12.2mm (L*W*H) or 1.25**0.80**0.48" inch (L*W*H) | | | | | | | | | |
| | PACKING | 15g | | | | | | | | | |

Mechanical Specification

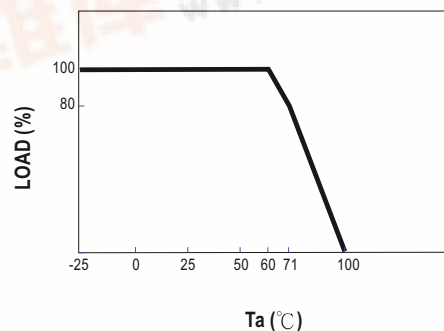
Unit:mm(inch)



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, $25^{\circ}C$ 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 20% to 100% rated load.
5. Please prevent the converter from operating in overload or short circuit condition for more than 30 seconds.