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ELECTRONICS

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Jameco Part Number 1953372



#### ■ Features :

- 2:1 wide input range
- 1000VDC I/O isolation
- Input Pi network 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
- 1 year warranty

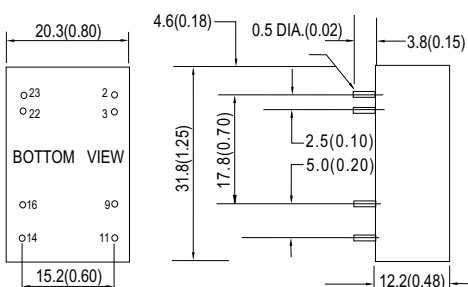


#### SPECIFICATION

| 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                | ±80 ~ ±800mA   |                            |           | ±33 ~ ±335mA |           |           | ±26 ~ ±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<br>Note.5 | OVERLOAD                     | 110 ~ 180% rated output load<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed                     |                            |           |              |           |           |              |           |           |
|                      | SHORT CIRCUIT                | All output equipped with over current protection<br>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

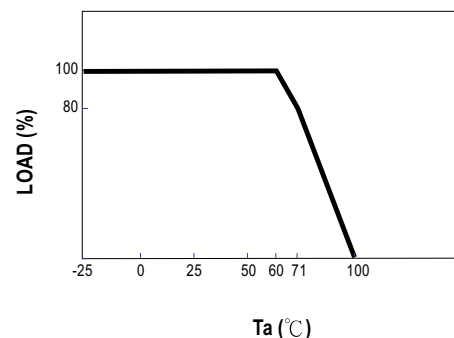
Unit:mm(inch)



#### ■ 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°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.