



## 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

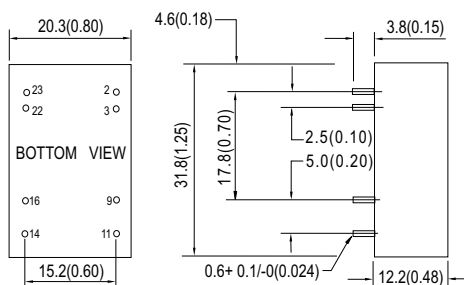


## SPECIFICATION

| ORDER NO.                                |                                             | DCW05A-05                                                               | DCW05B-05 | DCW05C-05 | DCW05A-12    | DCW05B-12 | DCW05C-12 | DCW05A-15    | DCW05B-15 | DCW05C-15 |
|------------------------------------------|---------------------------------------------|-------------------------------------------------------------------------|-----------|-----------|--------------|-----------|-----------|--------------|-----------|-----------|
| OUTPUT                                   | DC VOLTAGE                                  | ±5V                                                                     |           |           | ±12V         |           |           | ±15V         |           |           |
|                                          | CURRENT RANGE                               | ±50 ~ ±500mA                                                            |           |           | ±23 ~ ±230mA |           |           | ±19 ~ ±190mA |           |           |
|                                          | RATED POWER                                 | 5W                                                                      |           |           | 5.5W         |           |           | 5.7W         |           |           |
|                                          | RIPPLE & NOISE (max.) <small>Note.2</small> | 50mVp-p                                                                 |           |           | 60mVp-p      |           |           | 60mVp-p      |           |           |
|                                          | LINE REGULATION <small>Note.3</small>       | ±0.5%                                                                   |           |           |              |           |           |              |           |           |
|                                          | LOAD REGULATION <small>Note.4</small>       | ±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%                                                                     | 77%       | 77%       | 80%          | 82%       | 83%       | 81%          | 83%       | 85%       |
|                                          | DC CURRENT                                  | Full load   A: 586mA   B: 286mA   C: 139mA                              |           |           |              |           |           |              |           |           |
|                                          |                                             | No load   A: 41mA   B: 21mA   C: 12mA                                   |           |           |              |           |           |              |           |           |
|                                          | FILTER                                      | Pi network                                                              |           |           |              |           |           |              |           |           |
| PROTECTION                               |                                             | Fuse recommended                                                        |           |           |              |           |           |              |           |           |
| PROTECTION                               | OVERLOAD                                    | 150 ~ 250% rated output load                                            |           |           |              |           |           |              |           |           |
|                                          |                                             | Protection type : Shunt down o/p voltage, re-power on to recover        |           |           |              |           |           |              |           |           |
|                                          | SHORT CIRCUIT                               | All output equipped with over current protection                        |           |           |              |           |           |              |           |           |
|                                          |                                             | Protection type : Shun down o/p voltage, re-power on to recover         |           |           |              |           |           |              |           |           |
| 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% / °C (0 ~ 50℃)                                                   |           |           |              |           |           |              |           |           |
|                                          | VIBRATION                                   | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes |           |           |              |           |           |              |           |           |
| SAFETY & EMC<br><small>(Note. 5)</small> | WITHSTAND VOLTAGE                           | I/P-O/P:1KVDC                                                           |           |           |              |           |           |              |           |           |
|                                          | ISOLATION RESISTANCE                        | I/P-O/P: 100M Ohms / 500VDC / 25℃ / 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℃)                                        |           |           |              |           |           |              |           |           |
|                                          | 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

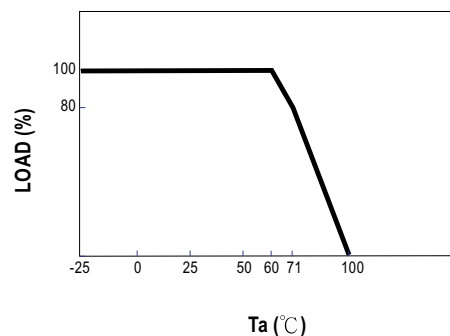
Unit:mm(inch)



## 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.The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.