



#### ■ 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

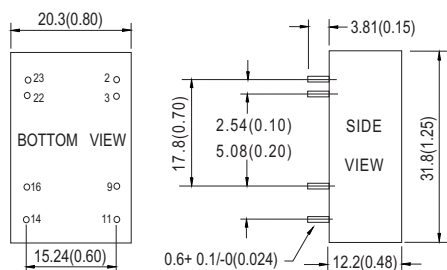
## SPECIFICATION



| ORDER NO.                        |                                             | SCW08A-05                                                                                                                        | SCW08B-05                      | SCW08C-05 | SCW08A-12   | SCW08B-12 | SCW08C-12 | SCW08A-15   | SCW08B-15 | SCW08C-15 |  |
|----------------------------------|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-----------|-------------|-----------|-----------|-------------|-----------|-----------|--|
| OUTPUT                           | DC VOLTAGE                                  | 5V                                                                                                                               |                                |           | 12V         |           |           | 15V         |           |           |  |
|                                  | CURRENT RANGE                               | 320 ~ 1600mA                                                                                                                     |                                |           | 134 ~ 670mA |           |           | 106 ~ 533mA |           |           |  |
|                                  | RATED POWER                                 | 8W                                                                                                                               |                                |           |             |           |           |             |           |           |  |
|                                  | 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.                                                                                                                       |                                |           |             |           |           |             |           |           |  |
| EXTERNAL CAPACITANCE LOAD (max.) |                                             | 1000uF                                                                                                                           |                                |           | 220uF       |           |           | 220uF       |           |           |  |
| INPUT                            | VOLTAGE RANGE                               | A: 9 ~ 18VDC   B: 18 ~ 36VDC   C: 36 ~ 72VDC                                                                                     |                                |           |             |           |           |             |           |           |  |
|                                  | EFFICIENCY (Typ.)                           | 75%                                                                                                                              | 78%                            | 78%       | 80%         | 82%       | 81%       | 79%         | 81%       | 81%       |  |
|                                  | 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 ~ 250% rated output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed          |                                |           |             |           |           |             |           |           |  |
|                                  | SHORT CIRCUIT                               | All output equipped with short circuit<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed |                                |           |             |           |           |             |           |           |  |
|                                  |                                             |                                                                                                                                  |                                |           |             |           |           |             |           |           |  |
| ENVIRONMENT                      | WORKING TEMP.                               | -40 ~ +71℃ (Refer to "Derating Curve")                                                                                           |                                |           |             |           |           |             |           |           |  |
|                                  | WORKING HUMIDITY                            | 20% ~ 90% RH non-condensing                                                                                                      |                                |           |             |           |           |             |           |           |  |
|                                  | STORAGE TEMP., HUMIDITY                     | -40 ~ +105℃, 10 ~ 95% RH                                                                                                         |                                |           |             |           |           |             |           |           |  |
|                                  | TEMP. COEFFICIENT                           | ±0.03% / °C (0 ~ 50℃)                                                                                                            |                                |           |             |           |           |             |           |           |  |
|                                  | VIBRATION                                   | 10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes                                                         |                                |           |             |           |           |             |           |           |  |
| SAFETY                           | SAFETY STANDARDS                            | EAC TP TC 004 approved                                                                                                           |                                |           |             |           |           |             |           |           |  |
|                                  | WITHSTAND VOLTAGE                           | I/P-O/P:1KVDC                                                                                                                    |                                |           |             |           |           |             |           |           |  |
|                                  | ISOLATION RESISTANCE                        | I/P-O/P: 100M Ohms / 500VDC / 25℃ / 70% RH                                                                                       |                                |           |             |           |           |             |           |           |  |
|                                  | ISOLATION CAPACITANCE                       | 250pF max.                                                                                                                       |                                |           |             |           |           |             |           |           |  |
|                                  | EMC EMISSION                                | Compliance to EN55032 Class B, FCC part 15 Class B, EAC TP TC 020                                                                |                                |           |             |           |           |             |           |           |  |
|                                  | EMC IMMUNITY                                | Compliance to EN61000-4-2,3,4,5,6,8 light industry level, criteria A, EAC TP TC 020                                              |                                |           |             |           |           |             |           |           |  |
| OTHERS                           | MTBF                                        | 900khrs min. MIL-HDBK-217F(25℃)                                                                                                  |                                |           |             |           |           |             |           |           |  |
|                                  | 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)

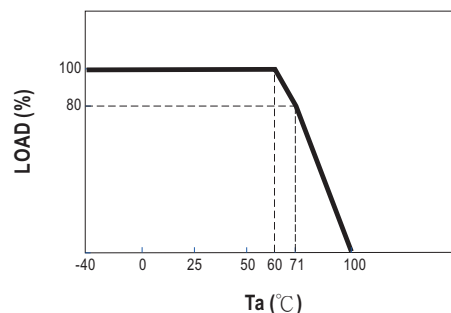


Pin Size is Tolerance 0.5±0.05mm, Tolerance .X or .XX= ±0.5mm

### ■ Pin Configuration

| Pin No. | Output |
|---------|--------|
| 2 & 3   | -Vin   |
| 9       | N.C.   |
| 11      | N.C.   |
| 14      | +Vout  |
| 16      | -Vout  |
| 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 20% to 100% rated load.
- 5.Please prevent the converter from operating in overload or short circuit condition for more than 30 seconds.

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MEAN WELL:

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