



■ 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

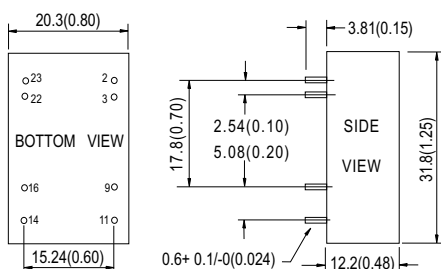
SPECIFICATION



| 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.) 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% | 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 (Note. 5) | OVERLOAD | 110 ~ 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 | WITHSTAND VOLTAGE | I/P-O/P: 1KVDC | | | | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P: 100M Ohms / 500VDC / 25°C / 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°C) | | | | | | | | |
| | DIMENSION | 31.8*20.3*12.2mm or 1.25**0.80**0.48" inch (L*W*H) | | | | | | | | |
| | WEIGHT | 15g | | | | | | | | |

■ Mechanical Specification

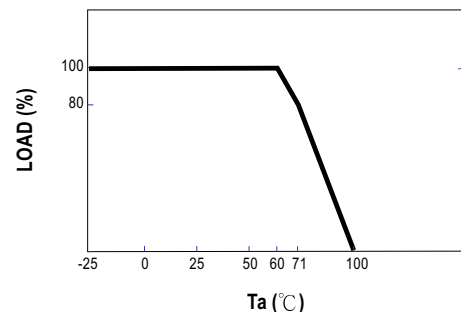
Unit:mm(inch)



■ Pin 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.