



- Features :
 - 2:1 wide input range
 - 1500VDC I/O isolation
 - Built-in remote ON/OFF control
 - 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
 - Modified models available: output 2.5V/3.3V
 - 2 years warranty

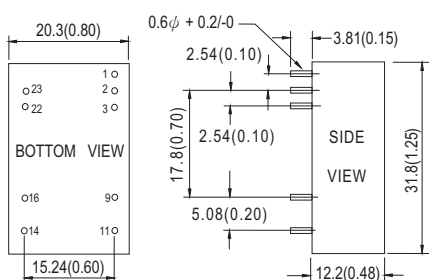


SPECIFICATION

| ORDER NO. | SCW12A-05 | SCW12B-05 | SCW12C-05 | SCW12A-12 | SCW12B-12 | SCW12C-12 | SCW12A-15 | SCW12B-15 | SCW12C-15 | | |
|----------------------|----------------------------------|--|-----------------------------|-----------|--------------|-----------|-----------|-------------|-----------|-----|--|
| OUTPUT | DC VOLTAGE | 5V | | | 12V | | | 15V | | | |
| | CURRENT RANGE | 480 ~ 2400mA | | | 200 ~ 1000mA | | | 160 ~ 800mA | | | |
| | RATED POWER | 12W | | | | | | | | | |
| | 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 | 400KHz min. | | | | | | | | | |
| INPUT | EXTERNAL CAPACITANCE LOAD (max.) | 1000uF | | | 220uF | | | 220uF | | | |
| | VOLTAGE RANGE | A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 72VDC | | | | | | | | | |
| | EFFICIENCY (Typ.) | 82% | 83% | 84% | 82% | 83% | 83% | 82% | 85% | 83% | |
| | DC CURRENT | Full load | A: 1245mA B: 625mA C: 320mA | | | | | | | | |
| | No load | A: 70mA B: 35mA C: 25mA | | | | | | | | | |
| FILTER | Pi network | | | | | | | | | | |
| PROTECTION | Fuse recommended | | | | | | | | | | |
| PROTECTION (Note. 5) | OVERLOAD | 110 ~ 180% 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. | -40 ~ +71°C (Refer to "Derating Curve") | | | | | | | | | |
| | WORKING HUMIDITY | 20% ~ 90% RH non-condensing | | | | | | | | | |
| | STORAGE TEMP., HUMIDITY | -40 ~ +105°C, 10 ~ 95% RH | | | | | | | | | |
| | TEMP. COEFFICIENT | ±0.05% / °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: 1.5KVDC | | | | | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH | | | | | | | | | |
| | ISOLATION CAPACITANCE | 2200pF max. | | | | | | | | | |
| | EMC EMISSION | Compliance to EN55022 Class A, FCC part 15 Class A | | | | | | | | | |
| | EMC IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8 light industry level, criteria A | | | | | | | | | |
| OTHERS | REMOTE CONTROL | Power ON: R.C. ~ -Vin > 4VDC or open ; Power OFF: R.C. ~ -Vin < 1VDC or short | | | | | | | | | |
| | MTBF | 600Khrs 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 | 18.5g | | | | | | | | | |

Mechanical Specification

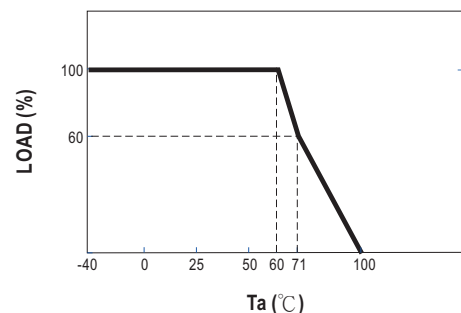
Unit:mm(inch)



Pin Configuration

| Pin No. | Output |
|---------|--------|
| 1 | R.C. |
| 2 & 3 | -Vin |
| 9 | N.C. |
| 11 | N.C. |
| 14 | +Vout |
| 16 | -Vout |
| 22 & 23 | +Vin |

Derating Curve



NOTE

- All parameters are specified at normal input, rated load, 25°C 70% RH ambient.
- Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.
- Line regulation is measured from low line to high line at rated load.
- Load regulation is measured from 20% to 100% rated load.
- Please prevent the converter from operating in overload or short circuit condition for more than 30 seconds.

Mouser Electronics

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Mean Well:

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[SCW12A-12](#)