



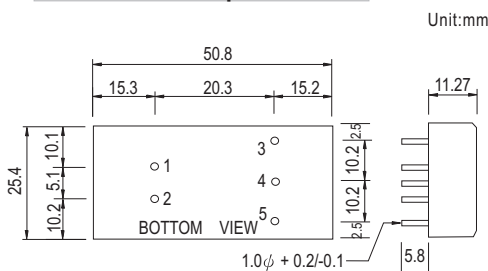
- Features :
  - 2:1 wide input range
  - 4:1 wide input range(option)
  - 1000VDC I/O isolation
  - 3000VDC I/O isolation(option)
  - Built-in EMI filter
  - Protections: Short circuit / Overload
  - Cooling by free air convection
  - Six-sided shield metal case
  - 100% burn-in test
  - Low cost / High reliability
  - Approvals: FCC / CE
  - 2 years warranty



## SPECIFICATION

| ORDER NO.            | SKE10A-05                    | SKE10B-05 | SKE10C-05 | SKE10A-12  | SKE10B-12 | SKE10C-12 | SKE10A-15    | SKE10B-15 | SKE10C-15 | SKE10A-24  | SKE10B-24 | SKE10C-24 |  |
|----------------------|------------------------------|-----------|-----------|------------|-----------|-----------|--------------|-----------|-----------|------------|-----------|-----------|--|
| OUTPUT               | DC VOLTAGE                   |           |           | 12V        |           |           | 15V          |           |           | 24V        |           |           |  |
|                      | CURRENT RANGE                |           |           | 84 ~ 840mA |           |           | 66.6 ~ 666mA |           |           | 42 ~ 420mA |           |           |  |
|                      | RATED POWER                  |           |           |            |           |           |              |           |           |            |           |           | 10W  |
|                      | RIPPLE & NOISE (max.) Note.2 |           |           | 60mVp-p    |           |           | 60mVp-p      |           |           | 80mVp-p    |           |           |  |
|                      | LINE REGULATION Note.3       |           |           |            |           |           |              |           |           |            |           |           | ±0.3%  |
|                      | LOAD REGULATION Note.4       |           |           |            |           |           |              |           |           |            |           |           | ±0.5%  |
|                      | VOLTAGE ACCURACY             |           |           |            |           |           |              |           |           |            |           |           | ±2.0%  |
|                      | SWITCHING FREQUENCY          |           |           |            |           |           |              |           |           |            |           |           | 200KHz min.  |
| INPUT                | VOLTAGE RANGE                |           |           |            |           |           |              |           |           |            |           |           | A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 72VDC   |
|                      | EFFICIENCY (Typ.)            |           |           |            |           |           |              |           |           |            |           |           | 78% 79% 80% 79% 81% 81% 80% 82% 82% 81% 82% 83%  |
|                      | DC CURRENT                   |           |           |            |           |           |              |           |           |            |           |           | Full load A: 1100mA B: 530mA C: 270mA<br>No load A: 28mA B: 16mA C: 8mA  |
|                      | FILTER                       |           |           |            |           |           |              |           |           |            |           |           | Pi network   |
|                      | PROTECTION                   |           |           |            |           |           |              |           |           |            |           |           | Fuse recommended   |
| PROTECTION (Note. 5) | OVER CURRENT                 |           |           |            |           |           |              |           |           |            |           |           | 160% ~ 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.                |           |           |            |           |           |              |           |           |            |           |           | -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./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°C / 70% RH  |
|                      | EMC EMISSION                 |           |           |            |           |           |              |           |           |            |           |           | Compliance to EN55022 Class B, FCC part 15 Class B   |
|                      | EMC IMMUNITY                 |           |           |            |           |           |              |           |           |            |           |           | Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A  |
| OTHERS               | MTBF                         |           |           |            |           |           |              |           |           |            |           |           | 500Khrs min. MIL-HDBK-217F(25°C)   |
|                      | DIMENSION                    |           |           |            |           |           |              |           |           |            |           |           | 50.8*25.4*11.2mm or 2**1**0.44" inch (L*W*H)   |
|                      | WEIGHT                       |           |           |            |           |           |              |           |           |            |           |           | 32g  |

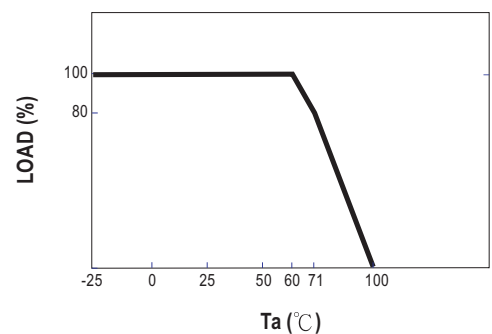
### Mechanical Specification



### Pin Configuration

| Pin no. | Output Single |
|---------|---------------|
| 1       | +Vin          |
| 2       | -Vin          |
| 3       | +Vout         |
| 4       | No Pin        |
| 5       | -Vout         |

### 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 10% to 100% rated load.
- Please prevent the converter from operating in overload or short circuit condition for more than 30 seconds.