



15W DC-DC Regulated Single Output Converter

SKE15 series

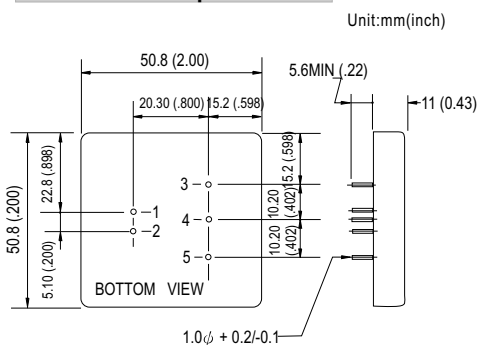


- Features :
 - 2:1 wide input range
 - 4:1 wide input range (optional)
 - 1000VDC I/O isolation
 - Input Pi network filter
 - Protections: Short circuit/ Over load
 - Free air convection
 - Six-sided shield metal case
 - High reliability/ Low cost
 - 100% burn-in test
 - 1 year warranty

SPECIFICATION

| ORDER NO. | SKE15A-05 | SKE15B-05 | SKE15C-05 | SKE15A-12 | SKE15B-12 | SKE15C-12 | SKE15A-15 | SKE15B-15 | SKE15C-15 | SKE15A-24 | SKE15B-24 | SKE15C-24 | |
|----------------------|------------------------------|--|-----------|-----------|--------------|-----------|-----------|--------------|-----------|-----------|--------------|-----------|-----|
| OUTPUT | DC VOLTAGE | 5V | | | 12V | | | 15V | | | 24V | | |
| | CURRENT RANGE | 300 ~ 3000mA | | | 125 ~ 1250mA | | | 100 ~ 1000mA | | | 62.5 ~ 625mA | | |
| | RATED POWER | 15W | | | | | | | | | | | |
| | RIPPLE & NOISE (max.) Note.2 | 50mVp-p | | | 60mVp-p | | | 60mVp-p | | | 80mVp-p | | |
| | LINE REGULATION Note.3 | ±0.3% | | | | | | | | | | | |
| | LOAD REGULATION Note.4 | ±0.5% | | | | | | | | | | | |
| | VOLTAGE ACCURACY | ±2% | | | | | | | | | | | |
| | SWITCHING FREQUENCY | 150KHz min. | | | | | | | | | | | |
| INPUT | VOLTAGE RANGE | A: 9 ~ 18VDC B: 18~36VDC C: 36~72VDC | | | | | | | | | | | |
| | EFFICIENCY (Typ.) | 79% | 79% | 80% | 80% | 82% | 82% | 80% | 83% | 83% | 82% | 83% | 84% |
| | DC CURRENT | Full load A: 1700mA B: 800mA C: 400mA No load A: 40mA B: 20mA C: 10mA | | | | | | | | | | | |
| | FILTER | Pi network | | | | | | | | | | | |
| PROTECTION (Note. 5) | OVER CURRENT | 160%~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./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 | | | | | | | | | | | |
| OTHERS | MTBF | 300khrs min. MIL-HDBK-217F(25°C) | | | | | | | | | | | |
| | DIMENSION | 50.8*50.8*11.0 mm or 2**2**0.43" inch (L*W*H) | | | | | | | | | | | |
| | WEIGHT | 65g | | | | | | | | | | | |

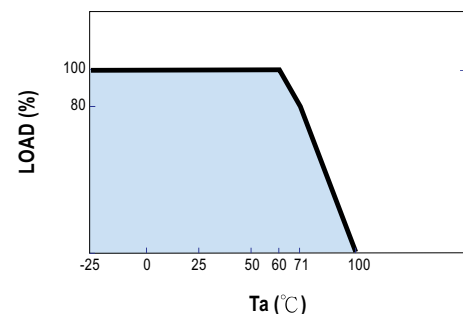
Mechanical Specification



Pin Configuration

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

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.Please prevent the converter from operating in overload or short circuit condition for more than 30 seconds.