# 9.9~15W DC-DC Regulated Single Output Converter SKA15 series




## Features :

- 2:1 wide input range
- 4:1 wide input range(option)
- 1500VDC 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 / EAC / CE / UKCA
- 2 years warranty

## GTIN CODE

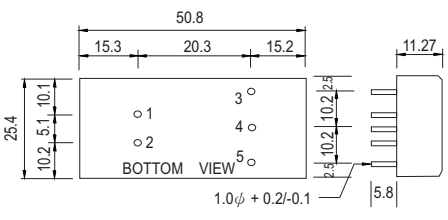
MW Search: https://www.meanwell.com/serviceGTIN.aspx

## SPECIFICATION

| ORDER NO. | | SKA15A-033 | SKA15B-033 | SKA15C-033 | SKA15A-05 | SKA15B-05 | SKA15C-05 | SKA15A-12 | SKA15B-12 | SKA15C-12 | SKA15A-15 | SKA15B-15 | SKA15C-15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OUTPUT | DC VOLTAGE | 3.3V | | | 5V | | | 12V | | | 15V | | |
| | CURRENT RANGE | 300 ~ 3000mA | | | 300 ~ 3000mA | | | 125 ~ 1250mA | | | 100 ~ 1000mA | | |
| | RATED POWER | 9.9W | | | 15W | | | | | | | | |
| | RIPPLE & NOISE (max.) Note.2 | 50mVp-p | | | 50mVp-p | | | 60mVp-p | | | 60mVp-p | | |
| | LINE REGULATION Note.3 | ±0.2% | | | | | | | | | | | |
| | LOAD REGULATION Note.4 | ±0.5% | | | | | | | | | | | |
| | VOLTAGE ACCURACY | ±2.0% | | | | | | | | | | | |
| | SWITCHING FREQUENCY | 150KHz min. | | | | | | | | | | | |
| | EXTERNAL CAPACITANCE LOAD (max.) | 2700uF | 2700uF | 1000uF | 2700uF | 2700uF | 1000uF | 1800uF | 1800uF | 680uF | 1500uF | 1500uF | 560uF |
| INPUT | VOLTAGE RANGE | A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 72VDC | | | | | | | | | | | |
| | EFFICIENCY (Typ.) | 76% | 76% | 76% | 78% | 78% | 80% | 82% | 80% | 82% | 82% | 80% | 82% |
| | DC CURRENT | Full load | A: 1700mA B: 800mA C: 400mA | | | | | | | | | | |
| | | No load | A: 20mA B: 30mA C: 15mA | | | | | | | | | | |
| | FILTER | Pi network | | | | | | | | | | | |
| | PROTECTION | Fuse recommended | | | | | | | | | | | |
| PROTECTION (Note. 5) | OVER CURRENT | 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. | -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% / ℃ (0 ~ 50℃) | | | | | | | | | | | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes | | | | | | | | | | | |
| SAFETY & EMC | SAFETY STANDARDS | EAC TP TC 020/2011approved | | | | | | | | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:1.5KVDC | | | | | | | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P: 100M Ohms / 500VDC / 25℃/ 70% RH | | | | | | | | | | | |
| | EMC EMISSION | Compliance to BS EN/EN55032 Class A, FCC part 15 Class A, EAC TP TC 020 | | | | | | | | | | | |
| | EMC IMMUNITY | Compliance to BS EN/EN61000-4-2,3,4,5,6,8, light industry level, criteria A, EAC TP TC 020 | | | | | | | | | | | |
| OTHERS | MTBF | 300Khrs min. MIL-HDBK-217F(25℃) | | | | | | | | | | | |
| | DIMENSION | 50.8*25.4*11.27 mm or 2"*1"*0.44" inch (L*W*H) | | | | | | | | | | | |
| | PACKING | 31.2g ; 10pcs/per tube, 400pcs/40 tube/per carton | | | | | | | | | | | |

### Mechanical Specification

Unit:mm(inch)

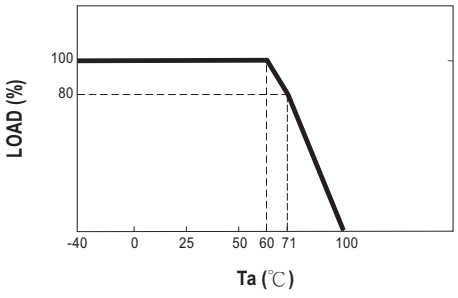



Tolerance .X or .XX= ±0.5mm

### Pin Configuration

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

### Derating Curve



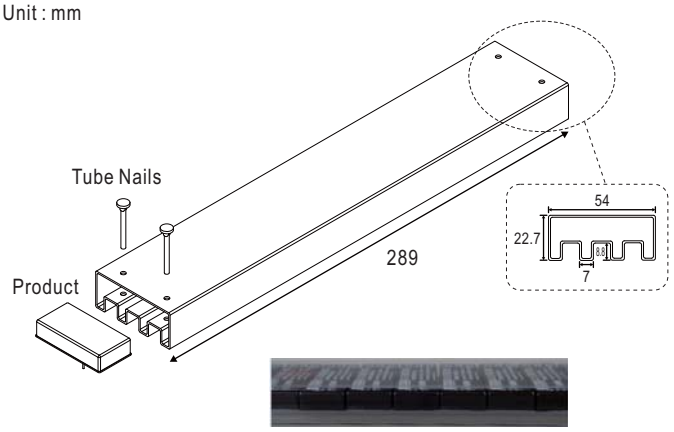
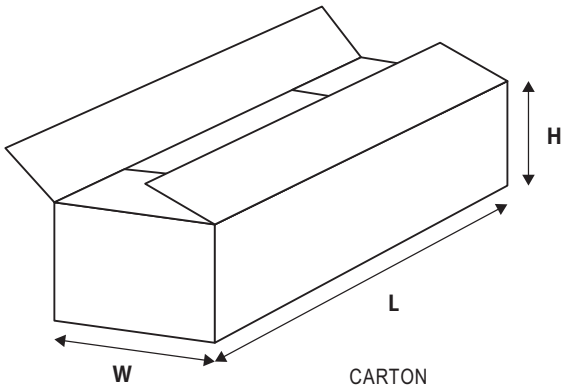

**NOTE**

1.All parameters are specified at normal input, rated load, 25℃ 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.
※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



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## ■ Packing

| Standard Tube Packing | MPQ Per Tube (PCS) | One Tube G.W. | Max. Q'TY/ Carton(PCS) | One Carton G.W. |
|---|---|---|---|---|
| Unit : mm<br><br><br><br>Tube pattern<br><br><br>CARTON<br>L620 x W230 x H230 | 10 | 400g | 400 | 16.8Kg |

## ■ Installation Manual

Please refer to : http://www.meanwell.com/manual.html



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