



MEAN WELL SKE15 Series 15W DC-DC Regulated Single Output Converter Owner's Manual

[Home](#) » [MEAN WELL](#) » MEAN WELL SKE15 Series 15W DC-DC Regulated Single Output Converter Owner's Manual 

Contents

- [1 MEAN WELL SKE15 Series 15W DC-DC Regulated Single Output Converter](#)
- [2 Product Information](#)
- [3 Product Usage Instructions](#)
- [4 Features](#)
- [5 Specifications](#)
- [6 Dimensions](#)
- [7 Derating Curve](#)
- [8 Documents / Resources](#)
 - [8.1 References](#)



MEAN WELL SKE15 Series 15W DC-DC Regulated Single Output Converter



Product Information

The SKE15 series is a 15W DC-DC Regulated Single Output Converter. It features a 2:1 wide input range, with an option for a 4:1 wide input range. The converter provides 1000VDC I/O isolation, with an option for 3000VDC I/O isolation. It has a built-in EMI filter and offers short circuit and overload protections. The converter operates by cooling through free air convection and is enclosed in a six-sided shield metal case. It undergoes a 100% burn-in test to ensure high reliability. The SKE15 series is FCC, EAC, CE, and UKCA approved.

Order No.	DC Voltage	Current Range	Rated Power	Ripple & Noise (max.)
SKE15A-05	5V	300 ~ 3000mA	15W	50mVp-p
SKE15B-05	12V	125 ~ 1250mA	15W	60mVp-p
SKE15C-05	15V	100 ~ 1000mA	15W	60mVp-p
SKE15A-12	24V	62.5 ~ 625mA	15W	80mVp-p
SKE15B-12				
SKE15C-12				
SKE15A-15				
SKE15B-15				
SKE15C-15				
SKE15A-24				
SKE15B-24				
SKE15C-24				

Product Usage Instructions

1. Ensure that the input voltage is within the specified range for the desired DC voltage output.
2. Connect the positive terminal of the input voltage (+Vin) to the corresponding pin on the converter. Connect the negative terminal of the input voltage (-Vin) to the corresponding pin on the converter.

3. Connect the positive terminal of the output voltage (+Vout) to the desired load. Connect the negative terminal of the output voltage (-Vout) to the desired load.
4. If necessary, use a fuse to provide additional protection for the converter.
5. Make sure to prevent the converter from operating in overload or short circuit conditions for more than 30 seconds.
6. The working temperature should be within the specified range. Avoid exposing the converter to extreme temperatures or humidity.
7. The converter meets safety standards and provides isolation resistance. It is recommended to comply with EMC regulations.

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 / EAC / CE / UKCA
- 2 years warranty

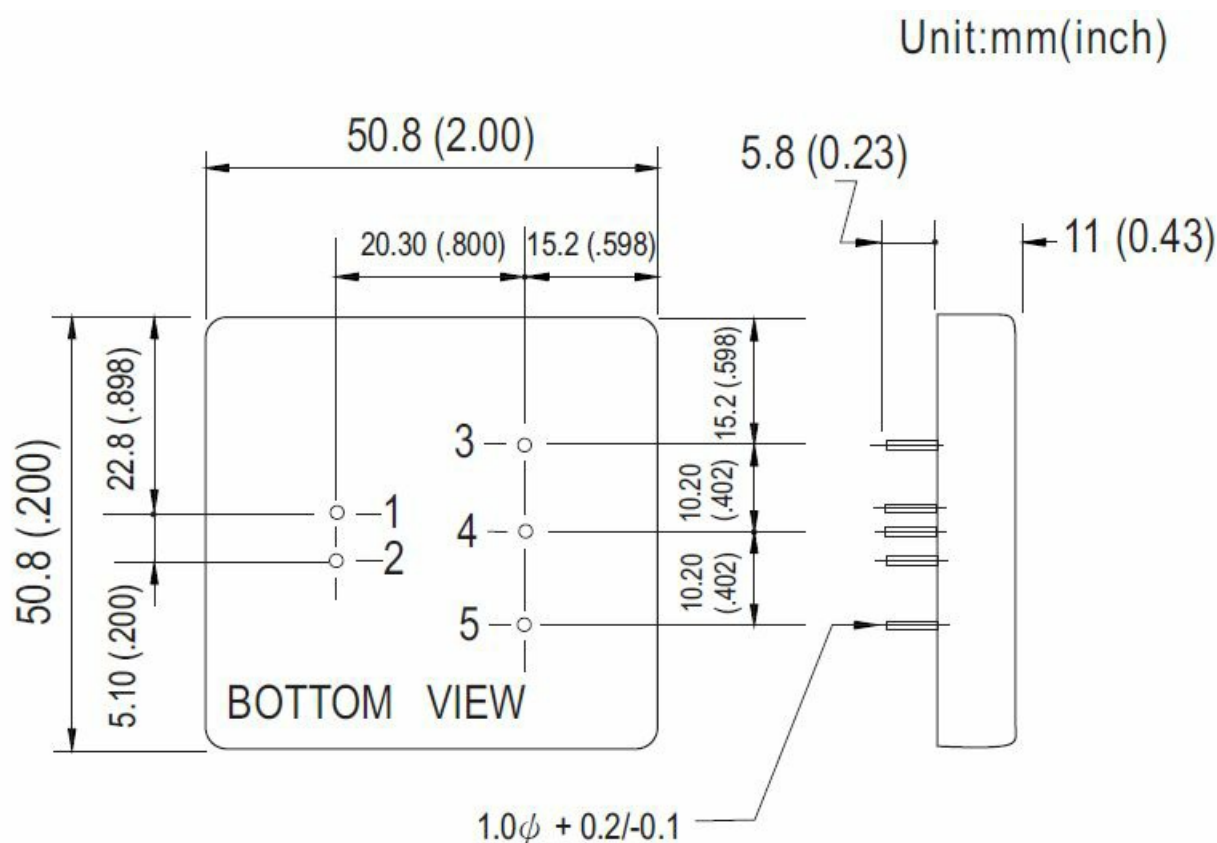


Specifications

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	±2.0%											
	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	Fuse recommended											
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℃ (Refer to "Derating Curve")											
	WORKING HUMIDITY	20% ~ 90% RH non-condensing											
	STORAGE TEMP., HUMIDITY	-25 ~ +105℃, 10 ~ 95% RH											
	TEMP. COEFFICIENT	±0.03% / °C (0 ~ 50℃)											
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes											
SAFETY & EMC	SAFETY STANDARDS	EAC TP TC 020/2011 approved											
	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											
OTHERS	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2, 3, 4, 5, 6, 8, light industry level, criteria A, EAC TP TC 020											
	MTBF	300Khrs min. MIL-HDBK-217F(25℃)											
	DIMENSION	50.8*50.8*11.0 mm or 2**2**0.43" inch (L*W*H)											
	WEIGHT	65g											

Mechanical Specification

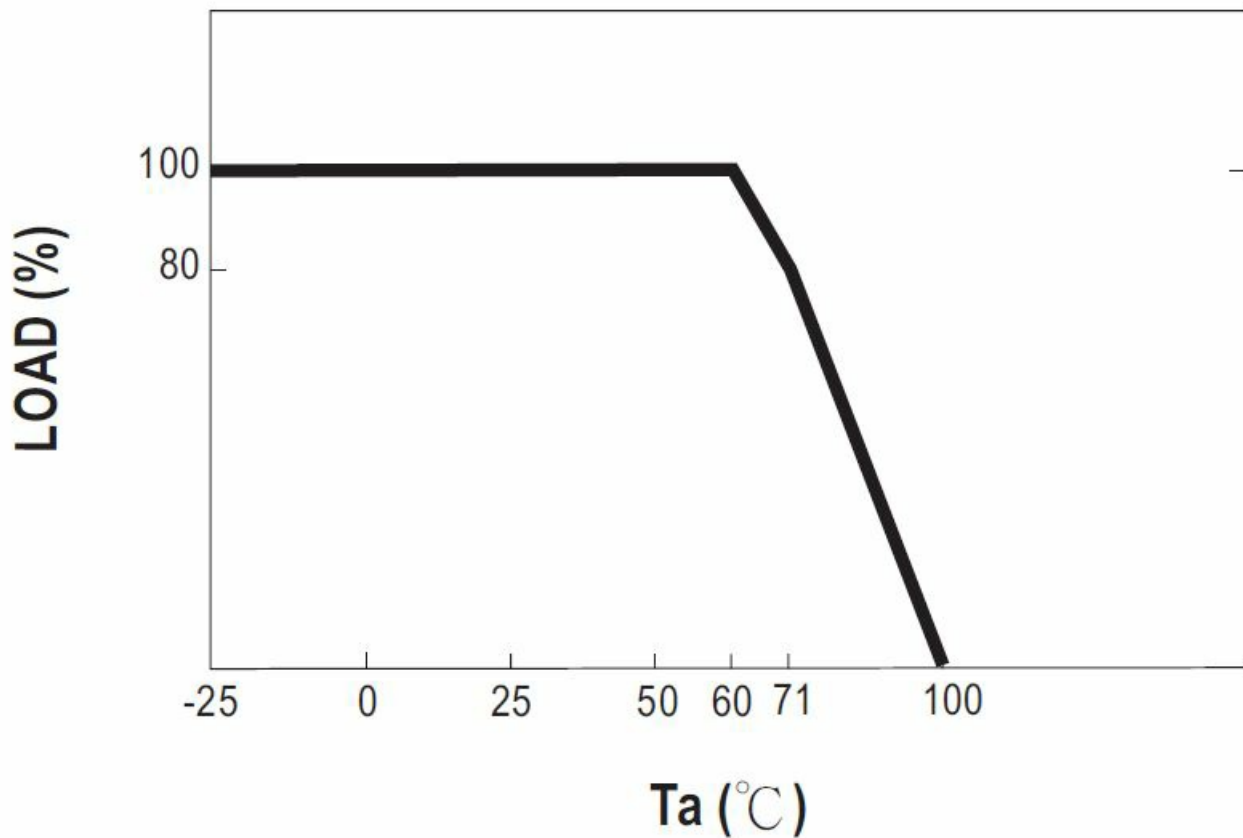
Dimensions



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.

Product Liability Disclaimer: For detailed information, please refer to

<https://www.meanwell.com/serviceDisclaimer.aspx>.

Documents / Resources

	<p>MEAN WELL SKE15 Series 15W DC-DC Regulated Single Output Converter [pdf] Owner's Manual</p> <p>SKE15 Series 15W DC-DC Regulated Single Output Converter, SKE15 Series, 15W DC-DC Regulated Single Output Converter, Single Output Converter, Output Converter</p>
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References

- [MEAN WELL Product Liability Disclaimer-MEAN WELL Switching Power Supply Manufacturer](#)