



15W DC-DC Regulated Single Output Converter

SKM15 series



■ Features :

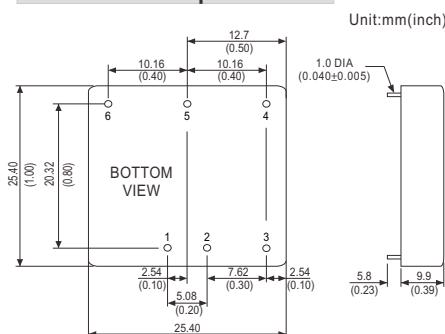
- 1" x 1" compact size
- 2:1 wide input range
- High efficiency up to 88%
- 1500VDC I/O isolation
- Built-in remote ON/OFF control
- Built-in trimming output (±10%)
- Built-in EMI filter
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Six-sided shield metal case
- 100% burn-in test
- Low cost / High reliability
- Approvals: FCC / EAC / CE / UKCA
- 2 years warranty



SPECIFICATION

ORDER NO.	SKM15A-05	SKM15B-05	SKM15C-05	SKM15A-12	SKM15B-12	SKM15C-12	SKM15A-15	SKM15B-15	SKM15C-15
OUTPUT	DC VOLTAGE	5V		12V			15V		
	CURRENT RANGE	300 ~ 3000mA		125 ~ 1250mA			100 ~ 1000mA		
	RATED POWER	15W							
	RIPLLE & 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 typ.							
	EXTERNAL CAPACITANCE LOAD (max.)	1000uF							
INPUT	EXTERNAL TRIM Adj. RANGE(Typ.)	±10%							
	VOLTAGE RANGE	A: 9 ~ 18VDC	B: 18 ~ 36VDC	C: 36 ~ 75VDC					
	EFFICIENCY (Typ.)	86%	87%	86%	87%	87%	86%	88%	88%
	DC CURRENT	Full load	1500mA	750mA	380mA	1500mA	750mA	380mA	380mA
		No load	80mA	55mA	35mA	35mA	25mA	15mA	15mA
	FILTER	Pi network							
	REMOTE CONTROL	Power ON : R.C ~ -Vin > 2.5VDC or open circuit ; Power OFF : R.C ~ -Vin < 0.5VDC or short							
	PROTECTION	Fuse recommended							
PROTECTION (Note. 5)	OVER CURRENT	110% ~ 180% rated output power							
		Protection type : Hiccup mode, recovers automatically after fault condition is removed							
	SHORT CIRCUIT	All output equipped with short circuit							
OVER VOLTAGE		Protection type : Hiccup mode, recovers automatically after fault condition is removed							
		115% ~ 150% rated output voltage							
		Protection type : Clamp by diode, recovers automatically after fault condition is removed							
ENVIRONMENT	WORKING TEMP.	-40 ~ +80°C (Refer to "Derating Curve")							
	WORKING HUMIDITY	20% ~ 90% RH non-condensing							
	STORAGE TEMP., HUMIDITY	-55 ~ +100°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	SAFETY STANDARDS	EAC TP TC 020/2011 (EAC TP TC 004 for 48V type only) approved							
	WITHSTAND VOLTAGE	I/P-O/P: 1.5kVDC							
	ISOLATION RESISTANCE	I/P-O/P: 100M Ohms / 500VDC / 25°C / 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	400Khrs min. MIL-HDBK-217F(25°C)							
	DIMENSION	25.4*25.4*9.9 mm or 1" * 1" * 0.39" inch (L*W*H)							
	WEIGHT	15g							

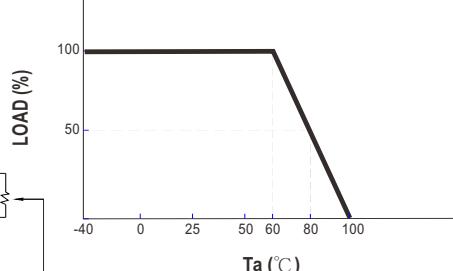
■ Mechanical Specification



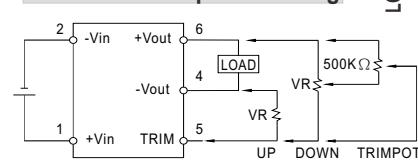
■ Pin Configuration

Pin No.	Output	Pin No.	Output
1	+Vin	4	-Vout
2	-Vin	5	Trim
3	R.C.	6	+Vout

■ Derating Curve



■ External Output Trimming



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>