



15W DC-DC Regulated Single Output Converter

SKM15 series



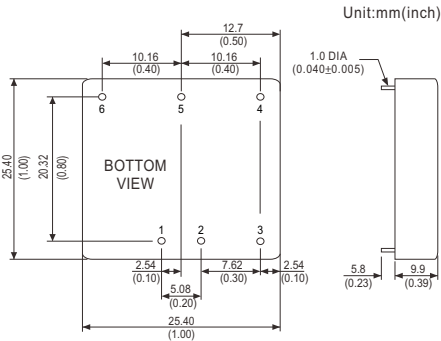
- Features :
- 1"x1" compact size
 - 2:1 wide input range
 - High efficiency up to 88%
 - 1500VDC I/O isolation
 - Built-in remote ON/OFF control
 - Built-in trimming output(±10%)
 - Built-in EMI filter
 - Protections: Short circuit / Overload / Over voltage
 - Cooling by free air convection
 - Six-sided 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								
	RIPPLE & NOISE (max.) <small>Note.2</small>		50mVp-p			60mVp-p			60mVp-p		
	LINE REGULATION <small>Note.3</small>		±0.5%								
	LOAD REGULATION <small>Note.4</small>		±0.5%								
	VOLTAGE ACCURACY		±2.0%								
	SWITCHING FREQUENCY		400KHz typ.								
	EXTERNAL CAPACITANCE LOAD (max.)		1000uF								
EXTERNAL TRIM Adj. RANGE(Typ.)		±10%									
INPUT	VOLTAGE RANGE		A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 75VDC								
	EFFICIENCY (Typ.)		86%	87%	86%	87%	86%	88%	88%	87%	
	DC CURRENT	Full load	1500mA	750mA	380mA	1500mA	750mA	380mA	1500mA	750mA	380mA
		No load	80mA	55mA	35mA	35mA	25mA	15mA	35mA	25mA	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 <small>(Note. 5)</small>	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 Protection type : Hiccup mode, recovers automatically after fault condition is removed								
	OVER VOLTAGE		115% ~ 150% rated output voltage Protection type : Clamp by diode, recovers automatically after fault condition is removed								
ENVIRONMENT	WORKING TEMP.		-40 ~ +80℃ (Refer to "Derating Curve")								
	WORKING HUMIDITY		20% ~ 90% RH non-condensing								
	STORAGE TEMP., HUMIDITY		-55 ~ +100℃, 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 (EAC TP TC 004 for 48Vin type only) 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								
	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		400Khrs min. MIL-HDBK-217F(25℃)								
	DIMENSION		25.4*25.4*9.9 mm or 1"*1"*0.39" inch (L*W*H)								
	WEIGHT		15g								

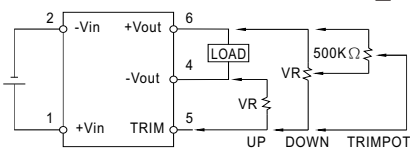
■ Mechanical Specification



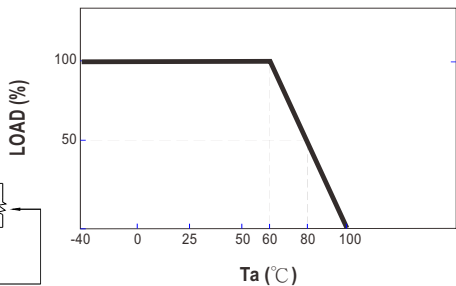
■ Pin Configuration

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

■ External Output Trimming



■ 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>