



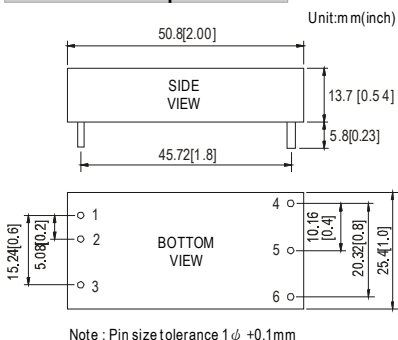
- Features :
  - 2"x1" compact size
  - 2:1 wide input range
  - High efficiency up to 92%
  - 1500VDC I/O isolation
  - Built-in remote ON/OFF control
  - Built-in trimming output
  - Comply with CE / FCC without external components
  - Protections: Short circuit / Overload / Input and Output Over voltage
  - Cooling by free air convection
  - Six-sided shield metal case
  - 100% burn-in test
  - Low cost / High reliability
  - Approvals: FCC / CE
  - 2 years warranty



**SPECIFICATION**

ORDER NO.	SKM50B-05	SKM50C-05	SKM50B-12	SKM50C-12	SKM50B-15	SKM50C-15		
<b>OUTPUT</b>	<b>DC VOLTAGE</b>		5V		12V			
	<b>CURRENT RANGE</b>		1 ~ 10A		0.41 ~ 4.17A			
	<b>RATED POWER</b>		50W		50W			
	<b>RIPPLE &amp; NOISE (max.)</b> Note.2		60mVp-p		80mVp-p			
	<b>LINE REGULATION</b> Note.3		±0.2%		±0.2%			
	<b>LOAD REGULATION</b> Note.4		±0.5%		±0.5%			
	<b>VOLTAGE ACCURACY</b>		±2.0%		±2.0%			
	<b>SWITCHING FREQUENCY</b>		300KHz typ.		300KHz typ.			
	<b>EXTERNAL CAPACITANCE LOAD (max.)</b>		1000uF		1000uF			
<b>INPUT</b>	<b>VOLTAGE RANGE</b>		B: 18 ~ 36VDC C: 36 ~ 75VDC		B: 18 ~ 36VDC C: 36 ~ 75VDC			
	<b>UNDER VOLTAGE SHUTDOWN</b>		B: 16VDC C: 32VDC		B: 16VDC C: 32VDC			
	<b>EFFICIENCY (Typ.)</b>		91%	91%	92%	91%	90%	91%
	<b>DC CURRENT</b>	Full load	2300mA	1160mA	2300mA	1160mA	2300mA	1160mA
		No load	110mA	60mA	110mA	60mA	110mA	60mA
	<b>FILTER</b>		Pi network		Pi network		Pi network	
	<b>REMOTE CONTROL</b>		Power ON : R.C ~ -Vin > 2.5VDC or open circuit ; Power OFF : R.C ~ -Vin < 0.5VDC or short		Power ON : R.C ~ -Vin > 2.5VDC or open circuit ; Power OFF : R.C ~ -Vin < 0.5VDC or short		Power ON : R.C ~ -Vin > 2.5VDC or open circuit ; Power OFF : R.C ~ -Vin < 0.5VDC or short	
	<b>PROTECTION</b>		Fuse recommended		Fuse recommended		Fuse recommended	
	<b>PROTECTION (N ote. 5)</b>	<b>OVER CURRENT</b>		110% ~ 180% rated output power		110% ~ 180% rated output power		110% ~ 180% rated output power
<b>SHORT CIRCUIT</b>		All output equipped with short circuit		All output equipped with short circuit		All output equipped with short circuit		
<b>OVER VOLTAGE</b>		Input(Typ.) B: >40 ~ 50VDC C: >80 ~ 100VDC input voltage Protection type : Shut down o/p voltage, recovers automatically after fault condition is removed		Input(Typ.) B: >40 ~ 50VDC C: >80 ~ 100VDC input voltage Protection type : Shut down o/p voltage, recovers automatically after fault condition is removed		Input(Typ.) B: >40 ~ 50VDC C: >80 ~ 100VDC input voltage Protection type : Shut down o/p voltage, recovers automatically after fault condition is removed		
<b>ENVIRONMENT</b>	<b>WORKING TEMP.</b>		-40 ~ +75°C (Refer to "Derating Curve")		-40 ~ +75°C (Refer to "Derating Curve")		-40 ~ +75°C (Refer to "Derating Curve")	
	<b>CASE TEMP.</b>		+115°C max.		+115°C max.		+115°C max.	
	<b>WORKING HUMIDITY</b>		20% ~ 90% RH non-condensing		20% ~ 90% RH non-condensing		20% ~ 90% RH non-condensing	
	<b>STORAGE TEMP., HUMIDITY</b>		-55 ~ +125°C, 10 ~ 95% RH		-55 ~ +125°C, 10 ~ 95% RH		-55 ~ +125°C, 10 ~ 95% RH	
	<b>TEMP. COEFFICIENT</b>		±0.03% / °C (0 ~ 55°C)		±0.03% / °C (0 ~ 55°C)		±0.03% / °C (0 ~ 55°C)	
	<b>VIBRATION</b>		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes	
<b>SAFETY &amp; EMC</b>	<b>WITHSTAND VOLTAGE</b>		I/P-O/P: 1.5KVDC		I/P-O/P: 1.5KVDC		I/P-O/P: 1.5KVDC	
	<b>ISOLATION RESISTANCE</b>		I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH		I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH		I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH	
<b>EMC</b>	<b>EMC EMISSION</b> Note.5		Compliance to EN55022 Class A, FCC part 15 Class A without external components		Compliance to EN55022 Class A, FCC part 15 Class A without external components		Compliance to EN55022 Class A, FCC part 15 Class A without external components	
	<b>EMC IMMUNITY</b>		Compliance to EN61000-4-2, 3, 4, 5, 6, 8, light industry level, criteria A		Compliance to EN61000-4-2, 3, 4, 5, 6, 8, light industry level, criteria A		Compliance to EN61000-4-2, 3, 4, 5, 6, 8, light industry level, criteria A	
<b>OTHERS</b>	<b>MTBF</b>		700Khrs min. MIL-HDBK-217F(25°C)		700Khrs min. MIL-HDBK-217F(25°C)		700Khrs min. MIL-HDBK-217F(25°C)	
	<b>DIMENSION</b>		50.8*25.4*13.7 mm or 2**1**0.54" inch (L*W*H)		50.8*25.4*13.7 mm or 2**1**0.54" inch (L*W*H)		50.8*25.4*13.7 mm or 2**1**0.54" inch (L*W*H)	
<b>WEIGHT</b>		43g		43g		43g		

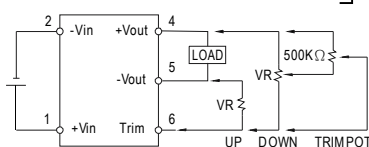
■ Mechanical Specification



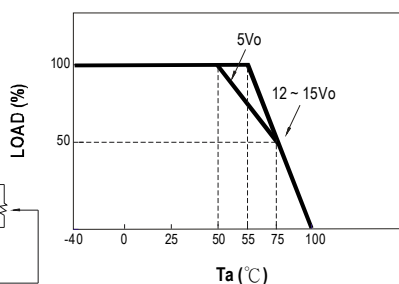
■ Pin Configuration

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

■ External Output Trimming



■ 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. Consult MEAN WELL for deployment of Class B.
6. Please prevent the converter from operating in overload or short circuit condition for more than 30 seconds.