



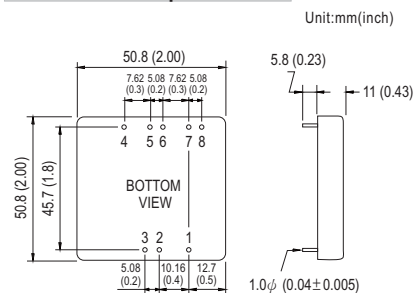
- Features :
  - 2"x2" compact size
  - 2:1 wide input range
  - High efficiency up to 93%
  - 1500VDC I/O isolation
  - Built-in remote ON / OFF control
  - Built-in remote sense
  - Trimming output  $\pm 10\%$
  - Comply with CE / FCC without external components
  - Protections: Short circuit / Overload / Input and output Over voltage
  - Cooling by free air convection
  - Six-sided shield metal case
  - 100% burn-in test
  - Low cost / High reliability
  - Output 3.3V available
  - 2 years warranty



**SPECIFICATION**

ORDER NO.	SKA60A-05	SKA60B-05	SKA60C-05	SKA60A-12	SKA60B-12	SKA60C-12	SKA60A-15	SKA60B-15	SKA60C-15		
<b>OUTPUT</b>	<b>DC VOLTAGE</b>	5V			12V			15V			
	<b>CURRENT RANGE</b>	1.2 ~ 12A			0.5 ~ 5A			0.4 ~ 4A			
	<b>RATED POWER</b>	60W									
	<b>RIPPLE &amp; NOISE (max.)</b> Note.2	60mVp-p			80mVp-p			100mVp-p			
	<b>LINE REGULATION</b> Note.3	$\pm 0.5\%$									
	<b>LOAD REGULATION</b> Note.4	$\pm 0.5\%$									
	<b>VOLTAGE ACCURACY</b>	$\pm 2.0\%$									
	<b>SWITCHING FREQUENCY</b>	250KHz min.									
	<b>EXTERNAL CAPACITANCE LOAD (max.)</b>	1000uF			220uF			100uF			
<b>EXTERNAL TRIM Adj. RANGE(Typ.)</b>	$\pm 10\%$										
<b>INPUT</b>	<b>VOLTAGE RANGE</b>	A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 75VDC									
	<b>EFFICIENCY (Typ.)</b>	91%	90.5%	92%	92%	92.5%	92%	92%	93%	92.5%	
	<b>DC CURRENT</b>	Full load	5505mA	2775mA	1370mA	5445mA	2715mA	1370mA	5400mA	2690mA	1370mA
		No load	185mA	120mA	60mA	160mA	120mA	60mA	160mA	120mA	85mA
	<b>FILTER</b>	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										
<b>PROTECTION</b>	Fuse recommended										
<b>PROTECTION (Note. 5)</b>	<b>OVER CURRENT</b>	110% ~ 160% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed									
	<b>SHORT CIRCUIT</b>	All output equipped with short circuit Protection type : Hiccup mode, recovers automatically after fault condition is removed									
	<b>OVER VOLTAGE</b>	Input(Typ.)	A: >20 ~ 25VDC B: >40 ~ 50VDC C: >80 ~ 100VDC input voltage						Protection type : Shut down o/p voltage, recovers automatically after fault condition is removed		
	Output(Typ.)	5Vo : 7V ~ 8.95V ; 12Vo : 15V ~ 19.2V ; 15Vo : 18V ~ 23.3V Protection type : Clamp by TVS diode									
<b>ENVIRONMENT</b>	<b>WORKING TEMP.</b>	-40 ~ +70°C (Refer to "Derating Curve")									
	<b>CASE TEMP.</b>	+100°C max.									
	<b>WORKING HUMIDITY</b>	20% ~ 90% RH non-condensing									
	<b>STORAGE TEMP., HUMIDITY</b>	-55 ~ +105°C, 10 ~ 95% RH									
	<b>TEMP. COEFFICIENT</b>	$\pm 0.03\% / ^\circ\text{C}$ (0 ~ 50°C)									
	<b>VIBRATION</b>	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes									
<b>SAFETY &amp; EMC</b>	<b>SAFETY STANDARDS</b>	EAC TP TC 004 approved									
	<b>WITHSTAND VOLTAGE</b>	I/P-O/P: 1.5KVDC									
	<b>ISOLATION RESISTANCE</b>	I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH									
	<b>EMC EMISSION</b>	Compliance to EN55032 Class A, FCC part 15 Class A without external components, EAC TP TC 020									
	<b>EMC IMMUNITY</b>	Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A, EAC TP TC 020									
<b>OTHERS</b>	<b>DIMENSION</b>	50.8*50.8*11.0 mm or 2**2**0.43" inch (L*W*H)									
	<b>WEIGHT</b>	67g									

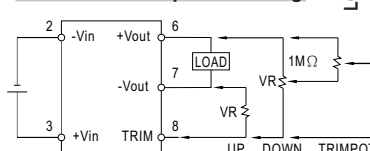
**Mechanical Specification**



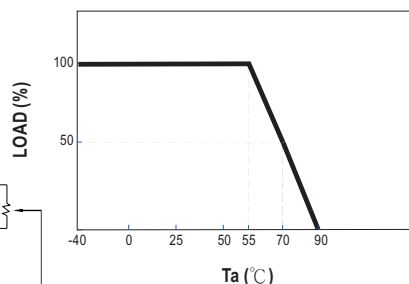
**Pin Configuration**

Pin No.	Output	Pin No.	Output
1	R.C	5	+R.S
2	-Vin	6	+Vout
3	+Vin	7	-Vout
4	-R.S	8	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.Please prevent the converter from operating in overload or short circuit condition for more than 30 seconds.