



Features :

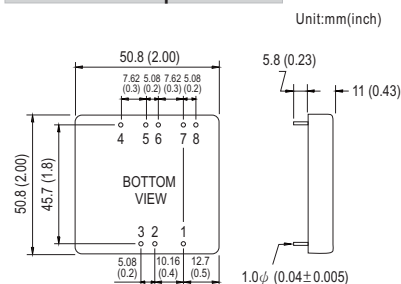
- 2:1 wide input range
- High efficiency up to 92%
- 1500VDC I/O isolation
- Built-in EMI filter
- Built-in remote ON / OFF control
- Built-in remote sense
- Trimming output $\pm 10\%$
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Six-sided shield metal case
- 100% burn-in test
- Low cost / High reliability
- Output 3.3V/9V available
- Approvals: FCC / CE
- 2 years warranty



SPECIFICATION

ORDER NO.	SKA40A-05	SKA40B-05	SKA40C-05	SKA40A-12	SKA40B-12	SKA40C-12	SKA40A-15	SKA40B-15	SKA40C-15
OUTPUT	DC VOLTAGE	5V			12V			15V	
	CURRENT RANGE	0.7 ~ 7A			0.3 ~ 3.33A			0.26 ~ 2.67A	
	RATED POWER	35W			40W			40W	
	RIPPLE & NOISE (max.) Note.2	60mVp-p			80mVp-p			100mVp-p	
	LINE REGULATION Note.3	$\pm 0.5\%$			$\pm 0.5\%$			$\pm 0.5\%$	
	LOAD REGULATION Note.4	$\pm 0.5\%$			$\pm 0.5\%$			$\pm 0.5\%$	
	VOLTAGE ACCURACY	$\pm 2.0\%$			$\pm 2.0\%$			$\pm 2.0\%$	
	SWITCHING FREQUENCY	200KHz min.			200KHz min.			200KHz min.	
INPUT	EXTERNAL CAPACITANCE LOAD (max.)	1000uF			1000uF			1000uF	
	EXTERNAL TRIM Adj. RANGE(Typ.)	$\pm 10\%$			$\pm 10\%$			$\pm 10\%$	
	VOLTAGE RANGE	A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 75VDC			A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 75VDC			A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 75VDC	
	EFFICIENCY (Typ.)	91%	92%	91%	90%	90%	88.5%	90%	90.5%
	DC CURRENT	Full load	A: 3850mA B: 1900mA C: 1000mA						
	No load	A: 150mA B: 100mA C: 65mA							
PROTECTION (Note. 5)	FILTER	Pi network			Pi network			Pi network	
	REMOTE CONTROL	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	
	PROTECTION	Fuse recommended			Fuse recommended			Fuse recommended	
	OVER CURRENT	110% ~ 180% rated output power			110% ~ 180% rated output power			110% ~ 180% rated output power	
ENVIRONMENT	SHORT CIRCUIT	All output equipped with short circuit			All output equipped with short circuit			All output equipped with short circuit	
	OVER VOLTAGE	5Vo : 7V ~ 8.95V ; 12Vo : 15V ~ 19.2V ; 15Vo : 18V ~ 23.3V			5Vo : 7V ~ 8.95V ; 12Vo : 15V ~ 19.2V ; 15Vo : 18V ~ 23.3V			5Vo : 7V ~ 8.95V ; 12Vo : 15V ~ 19.2V ; 15Vo : 18V ~ 23.3V	
	WORKING TEMP.	-40 ~ +80°C (Refer to "Derating Curve")			-40 ~ +80°C (Refer to "Derating Curve")			-40 ~ +80°C (Refer to "Derating Curve")	
SAFETY & EMC	WORKING HUMIDITY	20% ~ 90% RH non-condensing			20% ~ 90% RH non-condensing			20% ~ 90% RH non-condensing	
	STORAGE TEMP., HUMIDITY	-55 ~ +105°C, 10 ~ 95% RH			-55 ~ +105°C, 10 ~ 95% RH			-55 ~ +105°C, 10 ~ 95% RH	
	TEMP. COEFFICIENT	$\pm 0.03\% / ^\circ\text{C}$ (0 ~ 50°C)			$\pm 0.03\% / ^\circ\text{C}$ (0 ~ 50°C)			$\pm 0.03\% / ^\circ\text{C}$ (0 ~ 50°C)	
	VIBRATION	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	
OTHERS	SAFETY STANDARDS	EAC TP TC 004 approved			EAC TP TC 004 approved			EAC TP TC 004 approved	
	WITHSTAND VOLTAGE	I/P-O/P: 1.5KVDC			I/P-O/P: 1.5KVDC			I/P-O/P: 1.5KVDC	
	ISOLATION RESISTANCE	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	
	EMC EMISSION	Compliance to EN55032 Class A, FCC part 15 Class A, EAC TP TC 020			Compliance to EN55032 Class A, FCC part 15 Class A, EAC TP TC 020			Compliance to EN55032 Class A, FCC part 15 Class A, EAC TP TC 020	
OTHERS	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A, EAC TP TC 020			Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A, EAC TP TC 020			Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A, EAC TP TC 020	
	DIMENSION	50.8*50.8*11.0 mm or 2**2**0.43" inch (L*W*H)			50.8*50.8*11.0 mm or 2**2**0.43" inch (L*W*H)			50.8*50.8*11.0 mm or 2**2**0.43" inch (L*W*H)	
OTHERS	WEIGHT	60g			60g			60g	

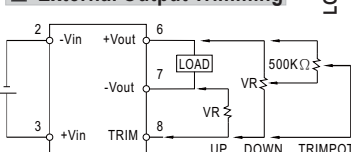
Mechanical Specification



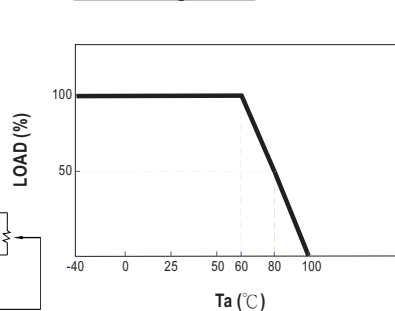
Pin Configuration

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.