



■ Features :

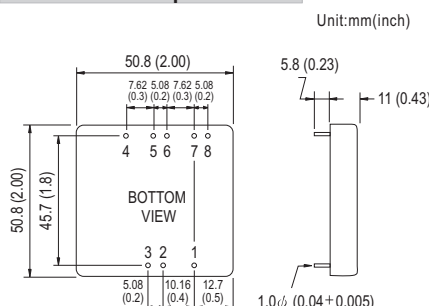
- 2"x2" compact size
- 2:1 wide input range
- High efficiency up to 93%
- 1500VDC I/O isolation
- Built-in remote ON / OFF control
- Built-in remote sense
- Trimming output $\pm 10\%$
- Comply with CE / FCC without external components
- Protections: Short circuit / Overload / Input and output Over voltage
- 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	
OUTPUT	DC VOLTAGE			12V			15V			
	CURRENT RANGE			0.5 ~ 5A			0.4 ~ 4A			
	RATED POWER									60W
	RIPPLE & NOISE (max.) Note.2			80mVp-p			100mVp-p			
	LINE REGULATION Note.3			$\pm 0.5\%$						
	LOAD REGULATION Note.4			$\pm 0.5\%$						
	VOLTAGE ACCURACY									$\pm 2.0\%$
	SWITCHING FREQUENCY									250KHz min.
	EXTERNAL CAPACITANCE LOAD (max.)			220uF			100uF			
EXTERNAL TRIM Adj. RANGE(Typ.)									$\pm 10\%$	
INPUT	VOLTAGE RANGE									A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 75VDC
	EFFICIENCY (Typ.)									91% 90.5% 92% 92% 92.5% 92% 92% 93% 92.5%
	DC CURRENT	Full load			5445mA			2715mA		
		No load			160mA			120mA		
	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% ~ 160% 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	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										
ENVIRONMENT	WORKING TEMP.									-40 ~ +70°C (Refer to "Derating Curve")
	CASE TEMP.									+100°C max.
	WORKING HUMIDITY									20% ~ 90% RH non-condensing
	STORAGE TEMP., HUMIDITY									-55 ~ +105°C, 10 ~ 95% RH
	TEMP. COEFFICIENT									$\pm 0.03\% / ^\circ\text{C}$ (0 ~ 50°C)
VIBRATION									10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes	
SAFETY & EMC	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 EN55022 Class A, FCC part 15 Class A without external components
EMC IMMUNITY									Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A	
OTHERS	DIMENSION									50.8*50.8*11.0 mm or 2**2**0.43" inch (L*W*H)
	WEIGHT									67g

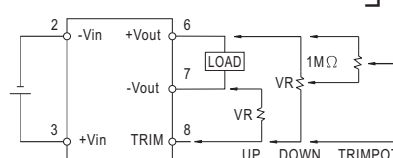
■ Mechanical Specification



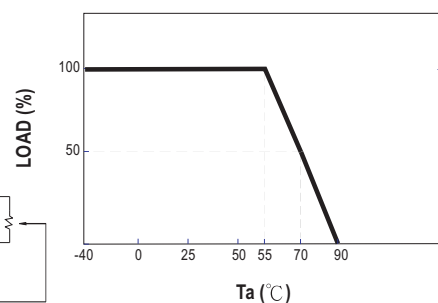
■ Pin Configuration

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.