



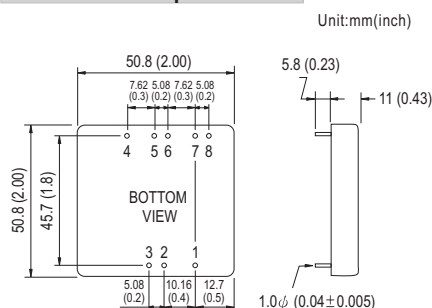
- Features :
 - 2"x2" compact size
 - 2:1 wide input range
 - High efficiency up to 93%
 - 1500VDC I/O isolation
 - Built-in remote ON / OFF control
 - Built-in remote sense
 - Trimming output $\pm 10\%$
 - Comply with CE / FCC without external components
 - Protections: Short circuit / Overload / Input 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			5505mA	2775mA	1370mA	5445mA	2715mA	1370mA	5400mA	2690mA	1370mA
		No load			185mA	120mA	60mA	160mA	120mA	60mA	160mA	120mA	85mA
	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			

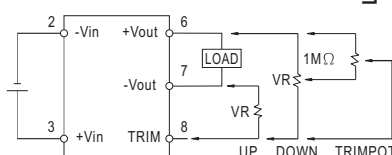
■ Mechanical Specification



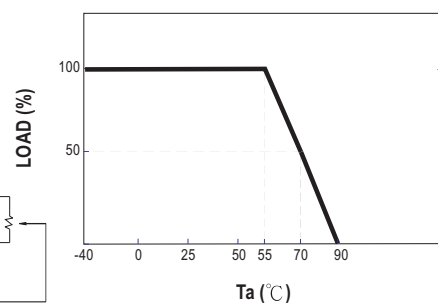
■ Pin Configuration

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.