



Features :

- 2"x1" compact size
- 2:1 wide input range
- High efficiency up to 89.5%
- 1500VDC I/O isolation
- Built-in remote ON/OFF control
- Built-in trimming output
- Built-in EMI filter
- 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

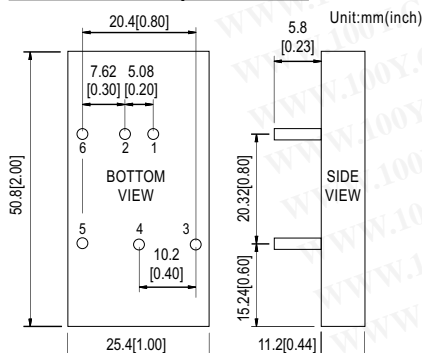
勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)



SPECIFICATION

ORDER NO.	SKA20A-05	SKA20B-05	SKA20C-05	SKA20A-12	SKA20B-12	SKA20C-12	SKA20A-15	SKA20B-15	SKA20C-15
OUTPUT	DC VOLTAGE			5V			12V		
	CURRENT RANGE			400 ~ 4000mA			166 ~ 1666mA		
	RATED POWER			20W			15V		
	RIPPLE & NOISE (max.) ^{Note.2}			50mVp-p			60mVp-p		
	LINE REGULATION ^{Note.3}			±0.2%			60mVp-p		
	LOAD REGULATION ^{Note.4}			±0.5%			60mVp-p		
	VOLTAGE ACCURACY			±2.0%					
	SWITCHING FREQUENCY			300KHz typ.					
	EXTERNAL CAPACITANCE LOAD (max.)			1000uF			220uF		
	EXTERNAL TRIM Adj. RANGE(Typ.)			±10%			-20 ~ +10%		
INPUT	VOLTAGE RANGE			A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 75VDC					
	EFFICIENCY (Typ.)			87.5%			88%		
	DC CURRENT			Full load			1910mA		
				No load			80mA		
	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% ~ 180% rated output power					
	SHORT CIRCUIT			Protection type : Hiccup mode, recovers automatically after fault condition is removed					
	OVER VOLTAGE			Input(Typ.) A: >20 ~ 23VDC B: >40 ~ 43VDC C: >80 ~ 82VDC input voltage					
				Output Protection type : Shut down o/p voltage, recovers automatically after fault condition is removed					
ENVIRONMENT	WORKING TEMP.			-40 ~ +85°C (Refer to "Derating Curve")					
	WORKING HUMIDITY			20% ~ 90% RH non-condensing					
	STORAGE TEMP., HUMIDITY			-55 ~ +125°C, 10 ~ 95% RH					
	TEMP. COEFFICIENT			±0.03% / °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					
	EMC IMMUNITY			Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A					
OTHERS	MTBF			700Khrs min. MIL-HDBK-217F(25°C)					
	DIMENSION			50.8*25.4*11.2 mm or 2**1**0.44" inch (L*W*H)					
	WEIGHT			31.2g					

Mechanical Specification

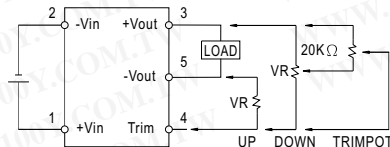


Pin Configuration

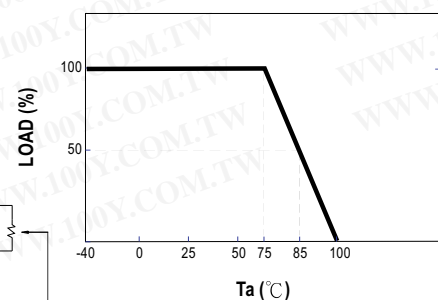
Pin No.	Output	Pin No.	Output
1	+Vin	4	Trim
2	-Vin	5	-Vout
3	+Vout	6	R.C

NOTE: Pin Size is Tolerance 1.0 φ ±0.10mm

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.