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60W DC-DC Regulated Single Output Converter — SKA60 series



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 ±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

GTIN CODE

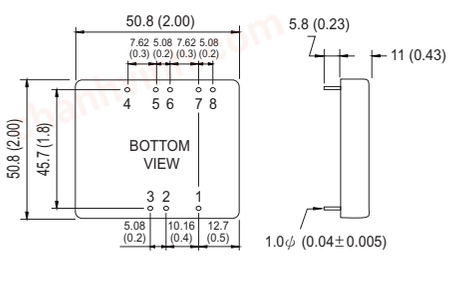
MW Search: https://www.meanwell.com/serviceGTIN.aspx

SPECIFICATION

ORDER NO.			SKA60A-05	SKA60B-05	SKA60C-05	SKA60A-12	SKA60B-12	SKA60C-12	SKA60A-15	SKA60B-15	SKA60C-15
OUTPUT	DC VOLTAGE		5V			12V			15V		
	CURRENT RANGE		1.2 ~ 12A			0.5 ~ 5A			0.4 ~ 4A		
	RATED POWER		60W								
	RIPPLE & NOISE (max.) Note.2		60mVp-p			80mVp-p			100mVp-p		
	LINE REGULATION Note.3		±0.5%								
	LOAD REGULATION Note.4		±0.5%								
	VOLTAGE ACCURACY		±2.0%								
	SWITCHING FREQUENCY		250KHz min.								
	EXTERNAL CAPACITANCE LOAD (max.)		1000uF			220uF			100uF		
	EXTERNAL TRIM Adj. RANGE(Typ.)		±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℃ (Refer to "Derating Curve")								
	CASE TEMP.		+100℃ max.								
	WORKING HUMIDITY		20% ~ 90% RH non-condensing								
	STORAGE TEMP., HUMIDITY		-55 ~ +105℃, 10 ~ 95% RH								
	TEMP. COEFFICIENT		±0.03% / ℃ (0 ~ 50℃)								
	VIBRATION		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes								
SAFETY & EMC	SAFETY STANDARDS		EAC TP TC 020/2011 (EAC TP TC 004 for 48Vin type only) approved								
	WITHSTAND VOLTAGE		I/P-O/P:1.5KVDC								
	ISOLATION RESISTANCE		I/P-O/P: 100M Ohms / 500VDC / 25℃/ 70% RH								
	EMC EMISSION		Compliance to BS EN/EN55032 Class A, FCC part 15 Class A without external components, EAC TP TC 020								
	EMC IMMUNITY		Compliance to BS EN/EN61000-4-2,3,4,5,6,8, light industry level, criteria A, EAC TP TC 020								
OTHERS	DIMENSION		50.8*50.8*11.0 mm or 2"*2"*0.43" inch (L*W*H)								
	PACKING		67g ; 5pcs/per tube, 200pcs/40 tube/per carton								

Mechanical Specification

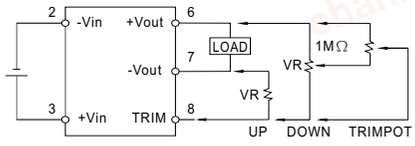
Unit:mm(inch)



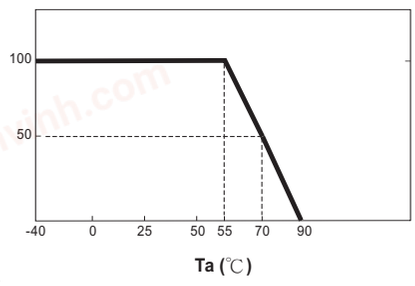
Pin Configuration

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

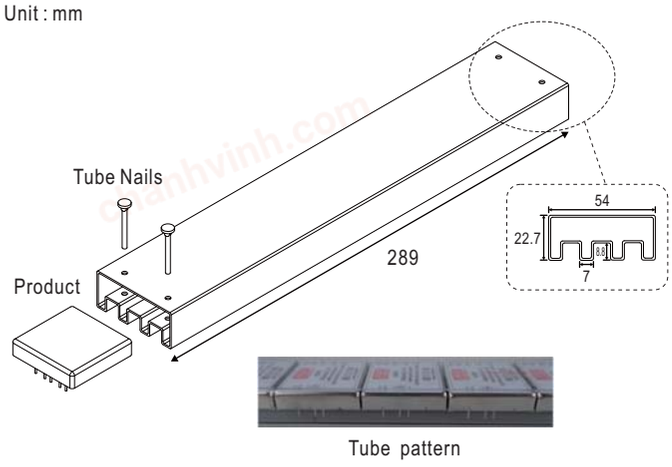
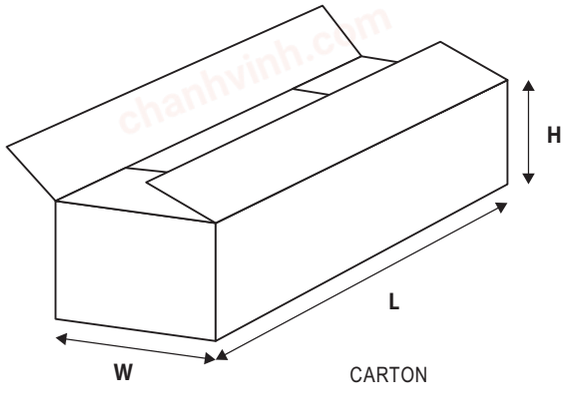


NOTE

1.All parameters are specified at normal input, rated load, 25℃ 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.
※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

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■ Packing

Standard Tube Packing	MPQ Per Tube (PCS)	One Tube G.W.	Max. Q'TY/ Carton(PCS)	One Carton G.W.
Unit : mm  Tube pattern  CARTON L620 x W230 x H230	5	400g	200	16.8Kg

■ Installation Manual

Please refer to : http://www.meanwell.com/manual.html