



Features:

- Single in line package
- 2:1 wide input range
- 1500VDC I/O isolation
- Built-in EMI filter without external components
- Protections: Short circuit / Overload
- Cooling by free air convection
- 100% full load burn-in test
- · Low cost / High reliability
- · 2 years warranty

■ GTIN CODE

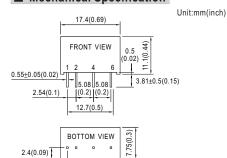
SPECIFICATION

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

F© EII C € LIS

ORDER NO.		SPA01A-05	SPA01B-05	SPA01C-05	SPA01A-12	SPA01B-12	SPA01C-12	SPA01A-15	SPA01B-15	SPA01C-15	
ОИТРИТ	DC VOLTAGE		5V		-	12V	'	1	15V		
	CURRENT RANGE		20 ~ 200mA 8 ~ 83mA 6 ~ 67mA								
	RATED POWER		1W								
	RIPPLE & NOISE (max.) Note.2		60mVp-p			80mVp-p			80mVp-p		
	LINE REGULATION Note.3		±0.5%								
	LOAD REGULATION Note.4		±0.5%								
	VOLTAGE ACCURACY		±2.0%								
	SWITCHING FREQUENCY		100KHz min.								
	VOLTAGE RANGE		A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 75VDC								
INPUT	EFFICIENCY (Typ.)		77%	77%	77%	78%	78%	78%	79%	79%	79%
	DC CURRENT	Full load	A: 110mA B: 55mA C: 27mA								
		No load	A: 20mA B	A: 20mA B: 10mA C: 7mA							
	FILTER		Capacitor Type								
	PROTECTION		Fuse recommended								
	OVERLOAD		130 ~ 200% rated output power								
PROTECTION			Protection type : Recovers automatically after fault condition is removed								
(Note. 5)	SHORT CIRCUIT		All output equipped with short circuit								
			Protection type: Recovers automatically after fault condition is removed								
	WORKING TEMP.		-40 ~ +90°C (Refer to "Derating Curve")								
	WORKING HUMIDITY		20% ~ 90% RH non-condensing								
ENVIRONMENT	STORAGE TEMP., HUMIDITY		-40 ~ +105°C, 10 ~ 95% RH								
	TEMP. COEFFICIENT		±0.05% / ℃ (0 ~ 50℃)								
	VIBRATION		10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes								
SAFETY	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								
	ISOLATION CAPACITANCE		80pF max.								
	EMC EMISSION		Compliance to BS EN/EN55032 Class B, FCC part 15 Class B, 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	MTBF		500Khrs min. MIL-HDBK-217F(25°C)								
	DIMENSION		17.4*7.75*11.1mm or 0.69"*0.30"*0.44" inch (L*W*H)								
	PACKING		3g ; 28pcs/per tube, 2800pcs/100 tube/per carton								

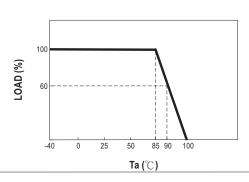
■ Mechanical Specification



■ Pin Configuration

Pin No.	Output				
1	-Vin				
2	+Vin				
4	+Vout				
6	-Vout				

■ Derating Curve



NOTE

- 1.All parameters are specified at normal input, rated load, 25 $^{\circ}\mathrm{C}$ 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.
- ** Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



■ Packing

Standard Tube Packing	MPQ Per Tube (PCS)	One Tube G.W.	Max. Q'TY/ Carton(PCS)	One Carton G.W.
Unit: mm Product Tube Plugs Tube pattern Tube pattern CARTON L600 x W230 x H220	28	140g	2800	14.8Kg

■ Installation Manual

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