

5W Single Output DC-DC Converter

PSD-05 series



- Features :
- 2:1 wide input range
- · Protections:Short circuit/Over load /Over voltage/Over temperature
- Built-in EMI filter, low ripple noise
- 100% full load burn-in test
- · Fix switching frequency at 67KHz
- Low cost
- High reliability
- 1 year warranty

MODEL	WT	PSD-05-05	PSD-05-12	PSD-05-24	
.100-	DC VOLTAGE	5V	12V	24V	
-1001.	RATED CURRENT	1A	0.45A	0.22A	
N	CURRENT RANGE	0~1A	0~0.5A	0~0.25A	
W.100	RATED POWER	5W	5.4W	5.28W	
OUTPUT	RIPPLE & NOISE (max.) Note.2	50mVp-p	100mVp-p	150mVp-p	
NN.Y	VOLTAGE TOLERANCE Note.3		±2.0%	±2.0%	
	LINE REGULATION	±1.0%	±1.0%	±0.5%	
N	LOAD REGULATION	±1.0%	±1.0%	±0.5%	
· ////	SETUP, RISE, HOLD UP TIME	1.2s, 20ms, at full load	1.2s, 20ms, at full load		
	VOLTAGE RANGE	36 ~ 72VDC	100, 0M.1	N. In COM.	
INPUT	EFFICIENCY(Typ.)	75%	78%	78%	
~~~	DC CURRENT(Typ.)	0.15A/48V	N.I. COM.	ALW N. COM	
W.	-1001 MT	Above 105% rated output pr	Above 105% rated output power		
W.	OVER LOAD	Protection type : Fold back current limiting, recovery automatically after fault condition is removed			
	ALLON CONT.	5.75~ 6.75V	13.8~16.2V	27.6~ 32.4V	
PROTECTION	OVER VOLTAGE		ode, recovery automatically after fault conc		
	MM. M. COM	U1 Tj140 typically(U1)Detect on main control IC			
	OVER TEMPERATURE	Protection type : Hiccup mode, recovery automatically after temperature goes down			
	WORKING TEMP.	-10 ~ +60°C (Refer to output		A 100 x.	
		20 ~ 90% RH non-condensir		You WWW.	
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH	Moon with	1.100	
	TEMP. COEFFICIENT	±0.05%/°C (0 ~ 50°C)	WWW. OOX.CO.	POLIS WWW	
	VIBRATION		cle, Period for 60min.each along X, Y, Z ax		
	WITHSTAND VOLTAGE	I/P-O/P:2KVAC			
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100	0M Ohms/500VDC	A NOT	
SAFETY &	EMI CONDUCTION & RADIATION			NA.	
EMC	EMS IMMUNITY		2, 3, 4, 6, 8 ENV50204, EN55024, EN6100	00-6-1 Light industry level, criteria A	
	DIMENSION	75*40*20mm (L*W*H)	, 0, 1, 0, 0 E1110010 ., E11110 .,		
OTHERS	PACKING	50mg;120pcs/6.25Kg/1CUF	FT STN. 100	-ON-	
	1. All parameters NOT specia 2. Ripple & noise are measur 3. Tolerance : includes set up	ially mentioned are measu ured at 20MHz of bandwidtl up tolerance, line regulation dered a component which	ured at 48VDC input, rated load and 2 th by using a 12" twisted pair-wire term on and load regulation.	$25^{\circ}$ C of ambient temperature. rminated with a 0.1uf & 47uf parallel capae nt.The final equipment must be re-confirm	

勝特力材料 886-3-5753170 胜特力电子(上海) 86-21-54151736 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

File Name:PSD-05-SPEC 2006-08-22



## 5W Single Output DC-DC Converter

## PSD-05 series

