

YAS5-5-WL

AC/DC Converter Specification

(Ver1.0)

Model Numbering

YAS 5- 5-WL

Series:YA
 Output Mode: Single
 Output Power:5W
 Output Voltage:5.05Vdc
 Input Voltage Range:100-240Vac



Introduction

Small volume;
 Delivers up to 5 watts;
 3000Vac isolation voltage;
 Short-Circuit, auto-recovery;
 2-years warranty;
 UL,CE and CB approvals



Electrical Specification

Output	Min	Type	Max	Units	Notes
Power			5	W	
Output Current			1	A	
Output Voltage	5.0	5.05	5.1	Vdc	
Line Regulation			±0.2	%	Input Voltage: 100 ~ 240Vac
Load Regulation			±0.5	%	Input Voltage : 220Vac
Dynamic Response Recovery Time			400	µS	25% ~ 50% ~ 25% and 50% ~ 75% ~ 50% Step load changes StepDi/dt=0.1A/µS
Dynamic Response Overshoot Rate			±250	mV	
Ripple and Noise			50	mV	Measured by 20MHz
Capacitive Load	0		10000	µF	
Temperature Coefficient			±0.1	%/	
Short-Circuit Protection	Continuous, Automatic Recovery				

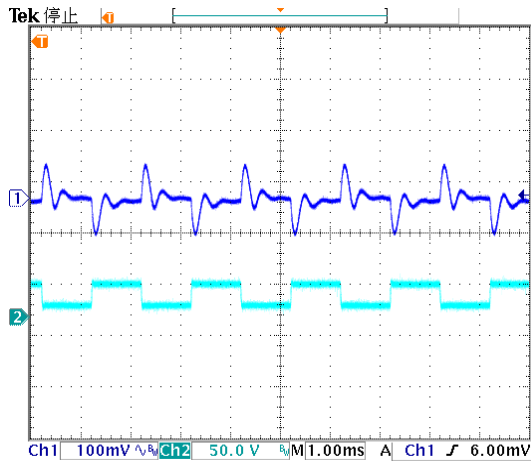
Input	Min	Type	Max	Units	Notes
AC Input Voltage Range	100	220	240	Vac	
DC Input Voltage Range	140	310	340	Vdc	
Input Voltage Frequency	45		65	Hz	
Setup Time		5		mS	
Start-up Delay Time		900		mS	

General	Min	Type	Max	Units	Notes
Isolation Voltage	3000			Vac	Input-Output
Switching Frequency		60		KHz	
Efficiency	74	76		%	Input Voltage : 220Vac
MTBF		3×10^5		h	Bellcore TR332, Tc=25
Pin Soldering Temp			260		Wave soldering time < 10S
Manual Soldering Time			5	S	Hand soldering temperature : 425
Case Temperature	-10		+70		
Storage Temperature	-40		+105		
Relative Humidity	10		90	%	
Weight		80		Gram	
Certificate	CE CB UL				

Characteristic Curves at 25

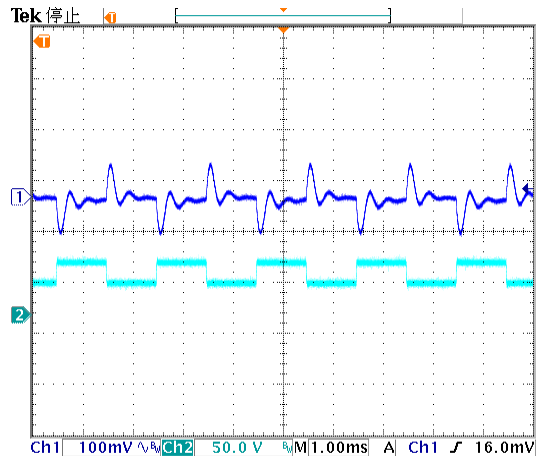
Typical Dynamic Response

Change From 25%~50%~25% Io(max)

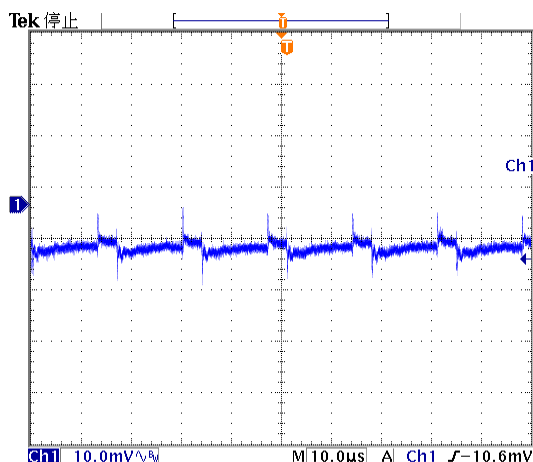


Typical Dynamic Response

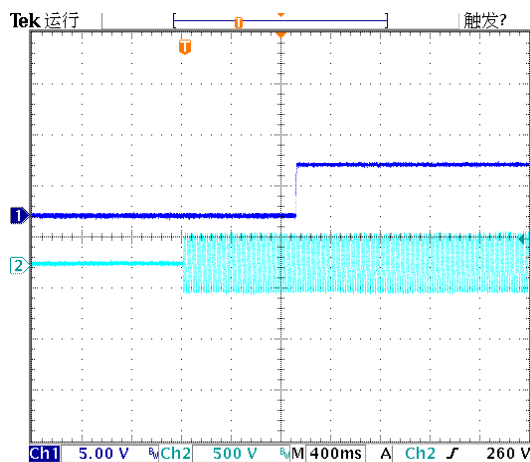
Change From 50%~75%~50% Io(max)



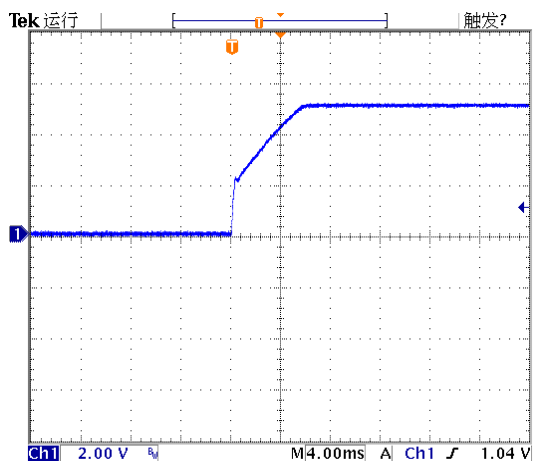
Typical Output Ripple Voltage



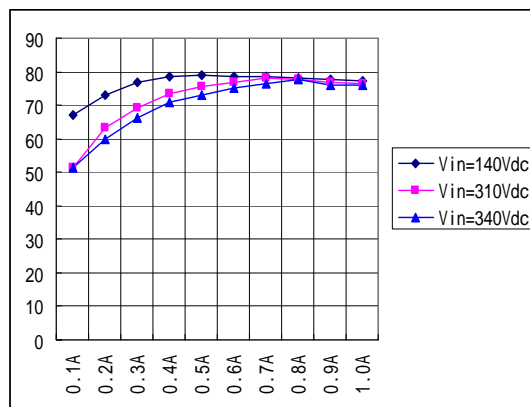
Typical Start-Up Delay



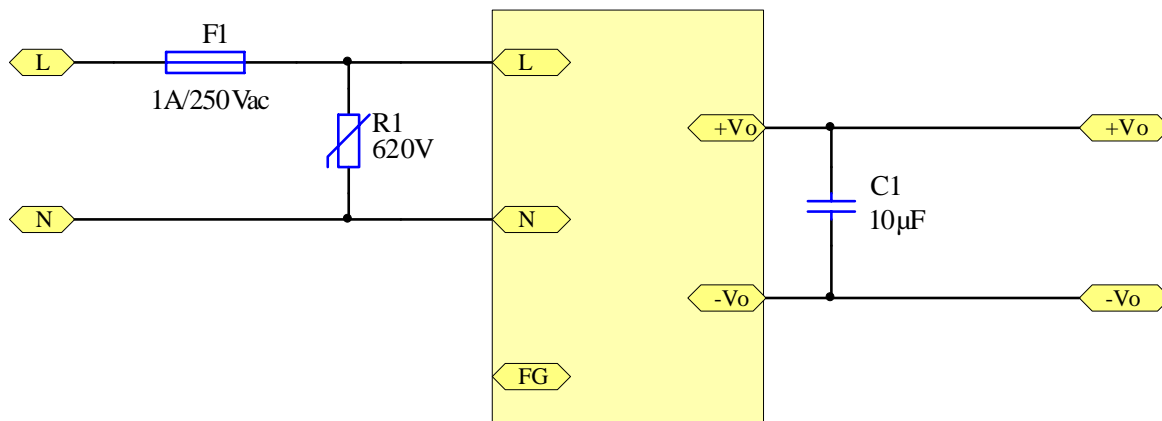
Typical Start Setup



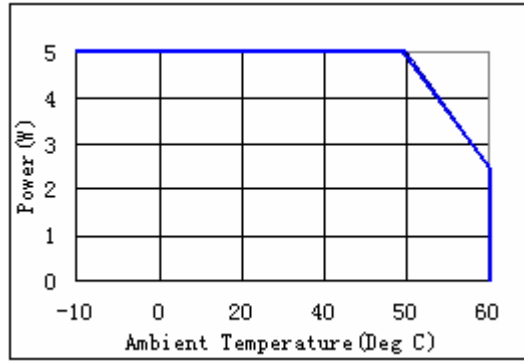
Typical Efficiency



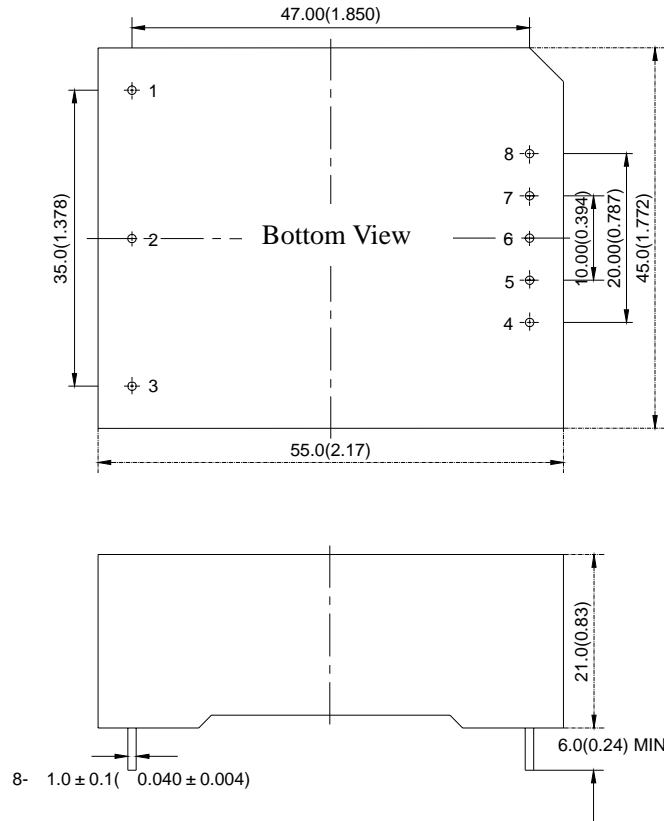
Typical Application



Derating Curve



Mechanical Diagram & Pins



Note : Units mm(inch)

Default tolerance : X.X±0.5mm(X.XX±0.02inch)

X.XX±0.25mm(X.XXX±0.010inch)

Pin	1	2	3	4	5	6	7	8
Sign	L	N	FG	-Vo	NP	NP	NP	+Vo