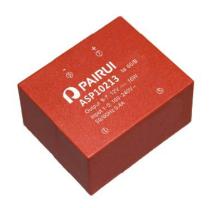


FEATURES:

- ✓ Compact Size, High Power Density
- ✓ Universal Input Voltage Range: 85~265Vac/120~370Vdc
- ✓ Output Voltage Range: 3.3VDC~24VDC
- ✓ Low Standby Power Consumption<0.1W
 </p>
- Better Energetic Efficiency: Meet Requirements of Energy Star and EC Code of Conduct
- ✓ Encapsulated Design and Same Footprint as EI48 Transformer
- ✓ Protections: Short Circuit, Over Temperature, Over Current



MODEL LIST

Model number	Nominal input voltage	Output voltage	Output power	Maximum output current	efficiency	Maximum ambient temperature	authentication
ASP10210	85-265VAC	3.3V	10W	3000mA	72%	50°C	UL, CUL, CE, CB, FCC,UKCA
ASP10211	85-265VAC	5V	10W	2000mA	74%	60°C	UL, CUL, CE, CB, FCC,UKCA
ASP10212	85-265VAC	9V	10W	1100mA	80%	60°C	UL, CUL, CE, CB, FCC,UKCA
ASP10213	85-265VAC	12V	10W	830mA	82%	60°C	UL, CUL, CE, CB, FCC,UKCA
ASP10214	85-265VAC	15V	10W	670mA	82%	60°C	UL, CUL, CE, CB, FCC,UKCA
ASP10215	85-265VAC	18V	10W	560mA	82%	60°C	UL, CUL, CE, CB, FCC,UKCA
ASP10216	85-265VAC	24V	10W	420mA	82%	60°C	UL, CUL, CE, CB, FCC,UKCA





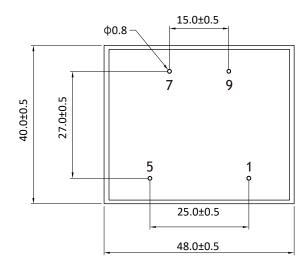
ELECTRICAL PARAMETER

item	Conditions	min	typ	max	unit
Input voltage		85		265	Vac
		120		370	Vdc
Input frequency	Vin=85~265Vac	47		63	Hz
Input current	Full load, Vin=85~265Vac/120~370Vdc		0.4		Α
Inrush current	Cold start, Vin=230Vac			25	Α
Standby power	No load, rated output voltage			0.1	W
Output voltage accuracy	Rated input voltage, full load		±2	±4	%
Line regulation	Vin from 85~265Vac or 120~370Vdc		±1		%
Load regulation	Vout from min. to max.		±1		%
Dynamic Response(Vout)	50%~100% load, 1A/us, 1Khz, 50% duty ratio			110	%
Turn-on delay time	Rated input voltage, full load, cold start			3	S
Turn-on rise time	Rated input voltage, full load			50	ms
Hold up time	Rated input voltage, full load	5			ms
Overshoot	Rated input voltage, full load			10	%
Undershoot	Rated input voltage, full load			10	%
					mV P-P
	In hiccup mode, it will recover automatically after fault	condition is			111111
Short circuit		condition is cur with no	s removed; safety haz		
Ripple Short circuit Over temperature Over current	In hiccup mode, it will recover automatically after fault No excessive heat, odor, or plastic deformation shall oc 130-150°C, shut off output voltage, it will recover automatically after fault No excessive heat, odor, or plastic deformation shall oc	condition is cur with no matically af	removed; safety haz ter the	ard	
Short circuit Over temperature	In hiccup mode, it will recover automatically after fault No excessive heat, odor, or plastic deformation shall oc 130-150°C, shut off output voltage, it will recover autotemperature turn to normal When output current exceeds the rated range, it will be	condition is cur with no matically af	removed; safety haz ter the	ard	°C
Short circuit Over temperature Over current Ambient operating temperature	In hiccup mode, it will recover automatically after fault No excessive heat, odor, or plastic deformation shall oc 130-150°C, shut off output voltage, it will recover automatemperature turn to normal When output current exceeds the rated range, it will be and will recover automatically after fault condition is re-	condition is cur with no matically af e protected emoved	removed; safety haz ter the	ard ally,	
Short circuit Over temperature Over current Ambient operating temperature Operating relative humidity	In hiccup mode, it will recover automatically after fault No excessive heat, odor, or plastic deformation shall oc 130-150°C, shut off output voltage, it will recover autotemperature turn to normal When output current exceeds the rated range, it will be and will recover automatically after fault condition is restartup at rated voltage	condition is cur with no matically af e protected moved -25	removed; safety haz ter the	ard ally,	°C
Short circuit Over temperature Over current Ambient operating temperature Operating relative humidity Storage temperature	In hiccup mode, it will recover automatically after fault No excessive heat, odor, or plastic deformation shall oc 130-150°C, shut off output voltage, it will recover autotemperature turn to normal When output current exceeds the rated range, it will be and will recover automatically after fault condition is restartup at rated voltage Non condensing	condition is cur with no matically af e protected emoved -25 10	removed; safety haz ter the	ally, / 90	°C %
Short circuit Over temperature Over current Ambient operating temperature Operating relative humidity Storage temperature MTBF	In hiccup mode, it will recover automatically after fault No excessive heat, odor, or plastic deformation shall oc 130-150°C, shut off output voltage, it will recover autotemperature turn to normal When output current exceeds the rated range, it will be and will recover automatically after fault condition is restartup at rated voltage Non condensing Humidity 5 ~ 95% RH	condition is cur with no matically af e protected emoved -25 10 -40	removed; safety haz ter the	ally, / 90	°C %
Short circuit Over temperature Over current Ambient operating temperature Operating relative humidity Storage temperature MTBF Dimension(LxWxH)	In hiccup mode, it will recover automatically after fault No excessive heat, odor, or plastic deformation shall oc 130-150°C, shut off output voltage, it will recover autotemperature turn to normal When output current exceeds the rated range, it will be and will recover automatically after fault condition is restartup at rated voltage Non condensing Humidity 5 ~ 95% RH Full load, 220Vac input, 25°C ambient temperature	condition is cur with no matically af e protected emoved -25 10 -40	removed; safety haz ter the	ally, / 90	°C %
Short circuit Over temperature Over current Ambient operating temperature Operating relative humidity Storage temperature MTBF Dimension(LxWxH) Weigh	In hiccup mode, it will recover automatically after fault No excessive heat, odor, or plastic deformation shall oc 130-150°C, shut off output voltage, it will recover autotemperature turn to normal When output current exceeds the rated range, it will be and will recover automatically after fault condition is restartup at rated voltage Non condensing Humidity 5 ~ 95% RH Full load, 220Vac input, 25°C ambient temperature 48 x 40 x 26mm, pin length 4mm	condition is cur with no matically af e protected emoved -25 10 -40 550	s removed; safety haz ter the automatica	ally, / 90 +85	°C % °C Khrs
Short circuit Over temperature Over current Ambient operating temperature Operating relative humidity Storage temperature MTBF Dimension(LxWxH) Weigh Safety	In hiccup mode, it will recover automatically after fault No excessive heat, odor, or plastic deformation shall oc 130-150°C, shut off output voltage, it will recover automatemperature turn to normal When output current exceeds the rated range, it will be and will recover automatically after fault condition is restartup at rated voltage Non condensing Humidity 5 ~ 95% RH Full load, 220Vac input, 25°C ambient temperature 48 x 40 x 26mm, pin length 4mm 76.5g	condition is cur with no matically af e protected emoved -25 10 -40 550	s removed; safety haz ter the automatica	ally, / 90 +85	°C % °C Khrs
Short circuit Over temperature Over current	In hiccup mode, it will recover automatically after fault No excessive heat, odor, or plastic deformation shall oc 130-150°C, shut off output voltage, it will recover automatemperature turn to normal When output current exceeds the rated range, it will be and will recover automatically after fault condition is restartup at rated voltage Non condensing Humidity 5 ~ 95% RH Full load, 220Vac input, 25°C ambient temperature 48 x 40 x 26mm, pin length 4mm 76.5g Design refer to UL/CUL60950, UL/CUL62368, IEC/EN6095	condition is cur with no matically af e protected moved -25 10 -40 550	s removed; safety haz ter the automatica	ally, / 90 +85	°C % °C Khrs

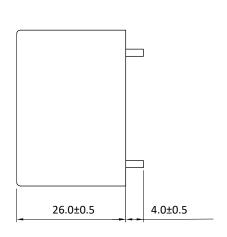


OVERALL DIMENSION

Bottom view



Side view



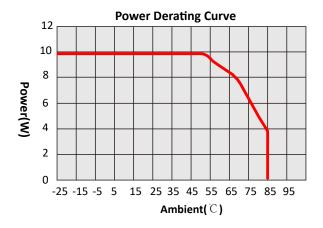
PIN DEFINITION

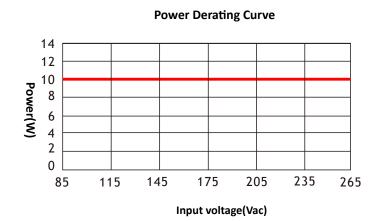
No	definition
1	AC(L)
5	AC(N)
7	Vout(+)
9	Vout(0V)





ELECTRICAL CURVE







APPLICATION GUIDE

1. Storage guide

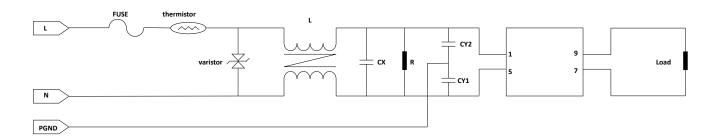
Storage temperature: -40°C to +85°C, storage humidity: 5% to 95%

2. Warranty Guide

In order to best ensure the reliability and life of the power supply, we recommend customers to use within 6 months. If the power supply is stored unused for more than 12 months, Then we recommend that the product needs to be aged for 2 hours before use.

3. Suitable for applications that require high EMC performance

This product is certified to EN55022 and EN55014 CLASS B EMC without any additional internal components. As follows The circuit can meet the more stringent EMC performance requirements.



Fuse: Recommended parameters: 5A to 10A/250Vac, slow-acting fuse type Thermistor: Recommended parameters: $2A,5\Omega,1.8W$ to 5A D10,2.5 Ω ,2.4W.

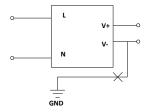
Varistor: Recommended parameters: 14D471,300Vac, maximum energy 118 joules.

L is common mode inductor: Recommended parameter: 10mH to 30mH CX is an X2 capacitor: Recommended parameters: 0.1uF to 0.22uF/275Vac

R is a resistor: Suggested parameter: 1.0MQ to 3.0 MQ2.

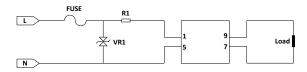
4. Suitable for grounding:

The application does not support ASQ/ASP products



5. High surge circuit

The ASQ /ASP series tests and certificates surge levels to 1EC61000-4-5 and does not require any additional external components. To wave When the surge level is increased to 6KV, the following external circuits may be recommended.



VR1 is a varistor, recommended parameters: 14D471,300 Vac, maximum energy 118 joules.

R1 is a winding resistor, recommended parameters: 10R/1W~10R/3W, resistance wire diameter 0.1 to 0.23mm.

F1 is a fuse, recommended parameters: 6.3A to 10A/250 VAC, slow-acting fuse.