

AMA24-Y







The AMA24-Y is a small wall plug adapter. Offering a commercial input voltage range of 90-264VAC and output power from 15W to 24W. This adapter will offer many benefits to powering your system such as low power consumption, high efficiency (meets Erp Tier 2), meets IEC62368-1, IEC60950-1, FCC, Class B, CISPR22, Class B.

It also features an isolation of 3000VAC for improved reliability and system safety and comes standard with output short circuit protection (OSCP) and output over-current protection (OCP).

Features



- Universal Input: 90 264VAC/47 63Hz
- Operating Temp: 0 °C to +45 °C
- High isolation voltage: 3000VAC
- Low ripple & noise, 200mV(p-p), max
- Output short circuit, over-current protection
- **Regulated Output**





Training



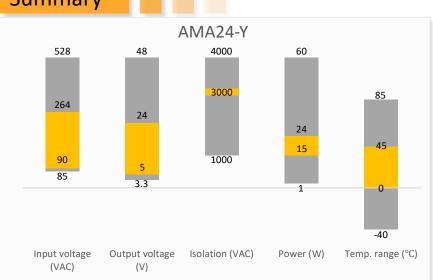
Product Training Video (click to open)



Coming Soon!

Application Notes

Summary



Applications







Industrial

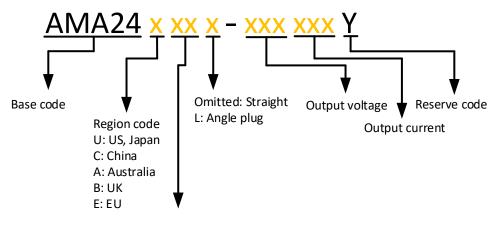


Models & Specifications



General Feature					
Model	Input Voltage (VAC)	Output Voltage (VDC)	Output Current max (A)	Output Power max (W)	Efficiency (%)
AMA24U-050300Y	90 - 264	5	3	15	78
AMA24E-050300Y	90 - 264	5	3	15	78
AMA24U-120150Y	90 - 264	12	1.5	18	85
AMA24E-120150Y	90 - 264	12	1.5	18	85
AMA24U-240075Y	90 - 264	24	0.75	18	85
AMA24E-240075Y	90 - 264	24	0.75	18	85
AMA24U-120200Y	90 - 264	12	2	24	86
AMA24E-120200Y	90 - 264	12	2	24	86

Please refer to below coding rule for completed part numbers. Eg. AMA24UR5-120200Y for industrial grade adaptor with US wall plug which comes with 5.5mm*2.5mm*9.5mm straight standard output plug.



Plug type	Code	O. D.	I. D.	Length
Standard	R1	3.5mm 1.35mm 9.5m		9.5mm
	R2	3.8mm	1.05mm	9.5mm
	R3	3.8mm	1.35mm	9.5mm
	R4	5.5mm 2.1mm 9.5mm		9.5mm
	R5	5.5mm	2.5mm	9.5mm
Locking	K1	5.5mm 2.1mm 9.5mm		9.5mm
	K2	5.5mm	2.5mm	9.5mm
USB	U1	Micro USB		
	U2	USB type C		



Input Specification					
Parameters	Conditions	Minimum	Typical	Maximum	Units
Voltage range		90	100 - 240	264	VAC
Frequency		47	50 - 60	63	Hz
Input current	Vin at 100~240VAC			0.6	Α
Inrush current	Vin at 240VAC			50	Α
Leakage Current	240VAC/50Hz		0.25		mA

Output Specification						
Parameters	Conditions	Minimum	Typical	Maximum	Units	
	Model AMA24x-050300Y		5			
	Model AMA24x-120150Y		12	VID 0		
Output voltage	Model AMA24x-240075Y		24		VDC	
	Model AMA24x-120200Y		12			
Output current	Model AMA24x-050300Y	0		3	Δ.	
	Model AMA24x-120150Y	0		1.5		
	Model AMA24x-240075Y	0		0.75	Α	
	Model AMA24x-120200Y	0		2		
	18W, 24W output			±5	%	
Voltage regulation	15W output			±10	70	
Ripple and Noise	20 MHz bandwidth			200	mVp-p	
Start-up time	Full load, Vin at 230VAC/50Hz			3	S	
Hold-up time	90% load, Vin at 115VAC/60Hz	10			mS	
Ripple and Noise are measured at 20MHz bandwidth by using a 0.1uF (M/C) and 10uF (E/C) parallel capacitor.						

Isolation Specifications				
Parameters	Conditions	Typical	Rated	Units
Tested I/O voltage	60 sec, leakage current < 10mA		3000	VAC

General Specification					
Parameters	Conditions	Minimum	Typical	Maximum	Units
Operating temperature	15W, 18W output	0		40	°C
	24W output	0		45	°C
Storage temperature	15W, 18W output	-20		70	°C
	24W output	-20		80	°C
Power consumption	Vin at 100 -240VAC, no load			100	mW
Humidity	Non-condensing	20		90	% RH
Altitude	Operation	0		2000	m
DOE LEVEL	VI				
Short circuit protection	Continuous, auto recovery				



Over current protection	Continuous, auto recovery		
Dimensions (L x W x H)	US 2.83 x 1.34 x 2.87 inches (72.00 x 34.00 x 73.00mm) EU 2.83 x 1.34 x 3.48 inches (72.00 x 34.00 x 88.30mm)		
Output Cable length	1500mm (59.06 inches)		
MTBF	> 175 000 hrs (Telcordia SR332, t=+25°C)/Full Load		
All '(' '			

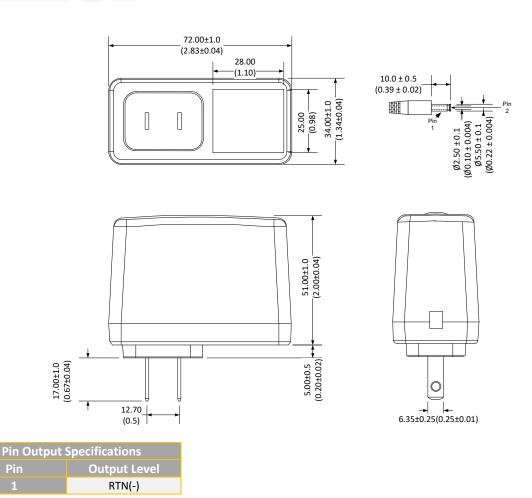
All specifications in this datasheet are measured at an ambient temperature of 25°C, humidity<75%, nominal input voltage and at rated output load unless otherwise specified.

Safety Specificati	ions	
Parameters		
Agency approvals	cULus UL62368-1, CE EN62368-1	
	Information technology Equipment	Designed to meet IEC62368-1
Standards	EMC - Radiated & Conducted emission	FCC, Class B CISPR32, Class B EN55032, Class B
	Surge Immunity	IEC61000-4-5, L-N 1KV/1.2*50us, 5 time, no function error

Dimensions



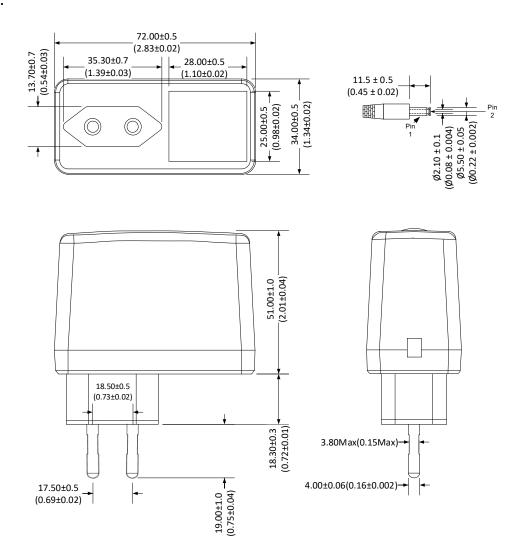
US Plug:





2 +Vout

European Plug:

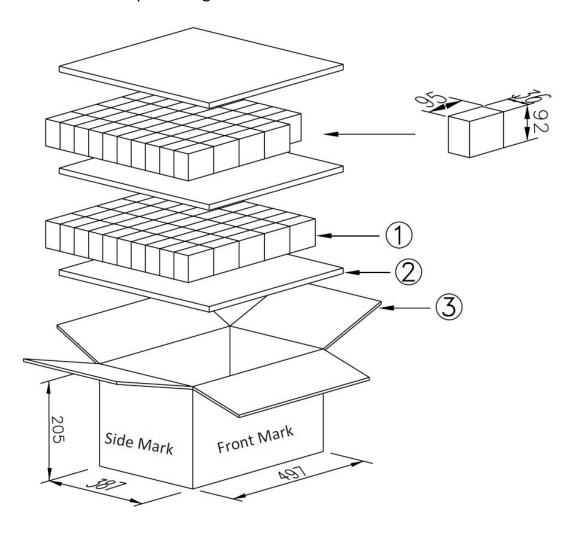


Pin Output Specifications		
Pin	Output Level	
1	RTN(-)	
2	+Vout	





For US and European Plug:



Packing information:

CARTON: L*W*H=(497*387*205) +/-5mm K=K
CLAPBOARD: (475*360) +/-3mm B33 3PCS

WHITE BOX: 95*36*92 450P

Q'TY: 50*2=100PCSNET WEIGHT: (g)(ref)

• UNIT : mm



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