



AMA15-Y



Picture coming soon

Wall Mount Adaptor

AMA15-Y is a small wall plug adapter. Offering a commercial input voltage range of 90-264VAC and an output power of 15W. This adapter will offer many benefits to powering your system such as low power consumption, high efficiency (complies with DoE level VI) and meets IEC60950-1, FCC, Class B, CISPR22, Class B.

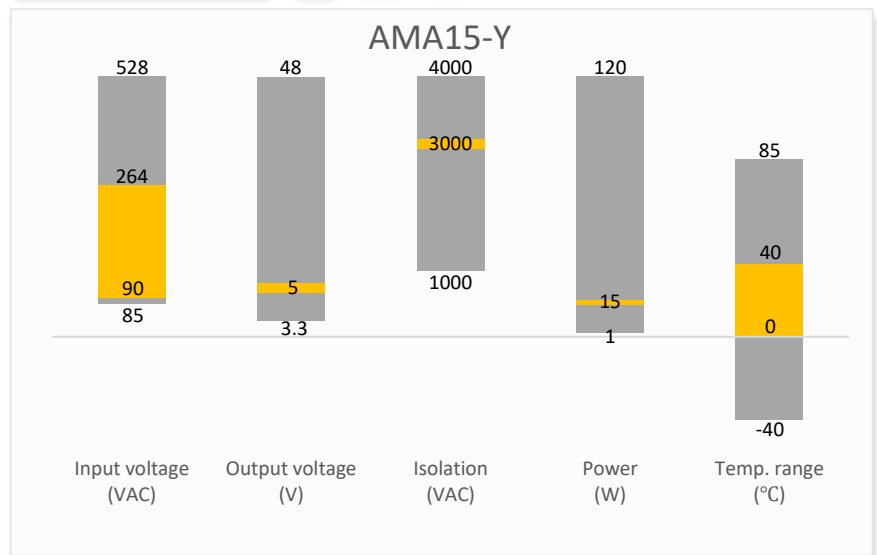
It also features an isolation of 3000VAC for improved reliability and system safety and comes standard with output short circuit protection (OSCP) and output over-current protection (OCP).

Features

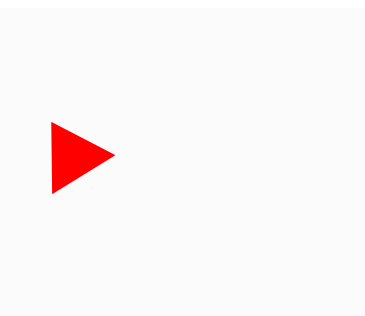


- Universal Input: 90 - 264VAC/47 - 63Hz
- Operating Temp: 0 °C to +40 °C
- High isolation voltage: 3000VAC
- Low ripple & noise, 200mV(p-p), max
- Output short circuit, over-current protection
- Regulated Output

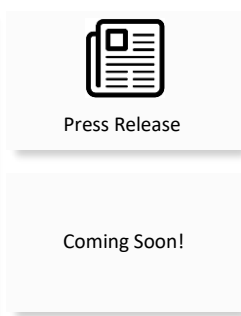
Summary



Training



Product Training Video
(click to open)



Application Notes

Applications



Portable Equipment



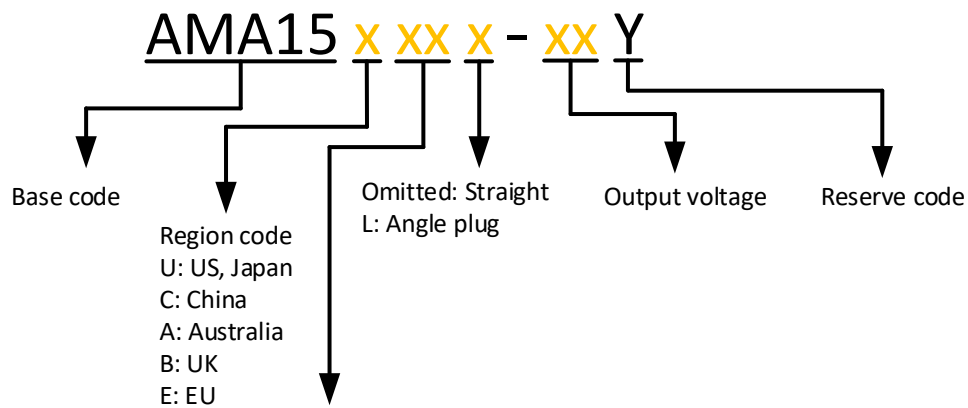
Industrial

Models & Specifications

General Feature

Model	Input Voltage (VAC)	Output Voltage (VDC)	Output Current max (A)	Output Power max (W)	Efficiency (%)
AMA15U-5Y	90 - 264	5	3	15	78
AMA15E-5Y	90 - 264	5	3	15	78

Please refer to below coding rule for completed part numbers. Eg. AMA15UR5-5Y for industrial grade adaptor with US type 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	9.5mm
	R2	3.8mm	1.05mm	9.5mm
	R3	3.8mm	1.35mm	9.5mm
	R4	5.5mm	2.1mm	9.5mm
	R5	5.5mm	2.5mm	9.5mm
Locking	K1	5.5mm	2.1mm	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	A
Inrush current	Vin at 240VAC			50	A
Leakage Current	240VAC/50Hz		0.25		mA

Output Specification					
Parameters	Conditions	Minimum	Typical	Maximum	Units
Output voltage	12VDC output		5		VDC
Output current	12VDC output	0		3	A
Voltage regulation				±10	%
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	leakage current < 10mA		3000	VAC

General Specification					
Parameters	Conditions	Minimum	Typical	Maximum	Units
Operating temperature		0		40	°C
Storage temperature		-20		70	°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 EU	2.83 x 1.34 x 2.87 inches (72.00 x 34.00 x 73.00mm) 2.83 x 1.34 x 3.46 inches (72.00 x 34.00 x 88.30mm)			
MTBF		> 175 000 hrs (SR332, t=+25°C)/Full Load			

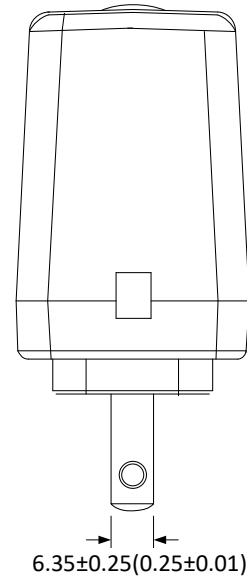
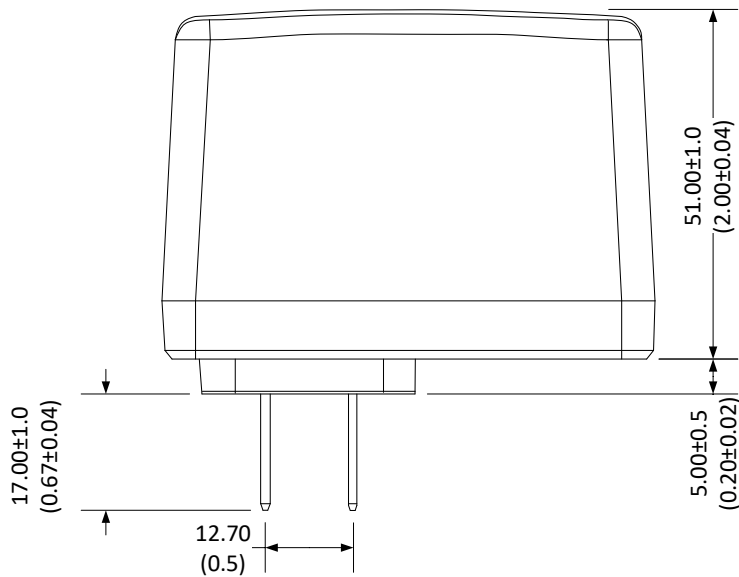
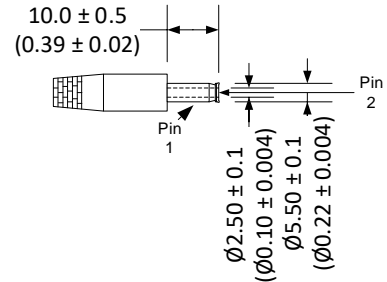
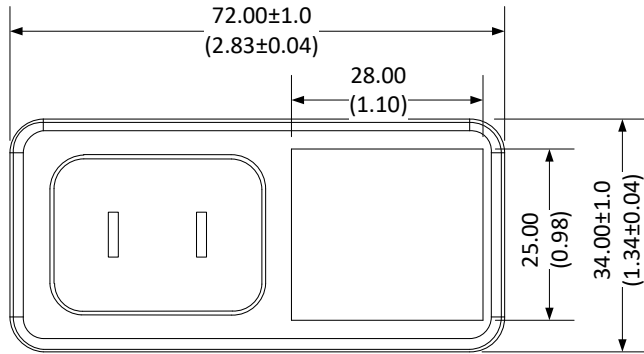
All specifications in this datasheet are measured at an ambient temperature of 25°C, humidity<75%, nominal input voltage and at rated output load unless otherwise specified.

Safety Specifications		
Parameters		
Standards	Information technology Equipment	Designed to meet IEC62368-1
	EMC - Radiated & Conducted emission	FCC, Class B EN55032, Class B
	Surge Immunity	IEC61000-4-5, L-N 1KV/1.2*50us, 5 time, no function error

Dimensions

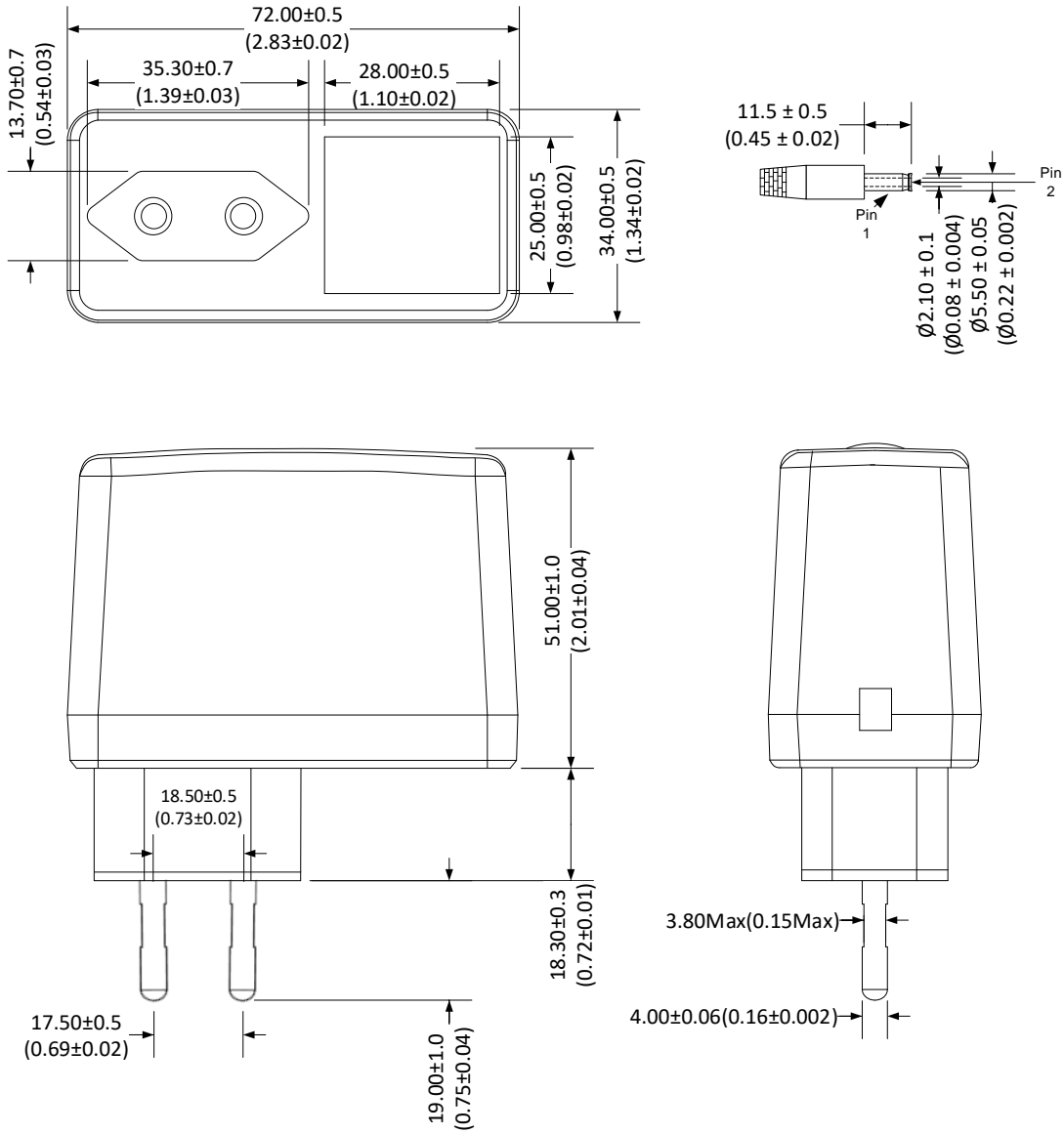


US Plug:



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

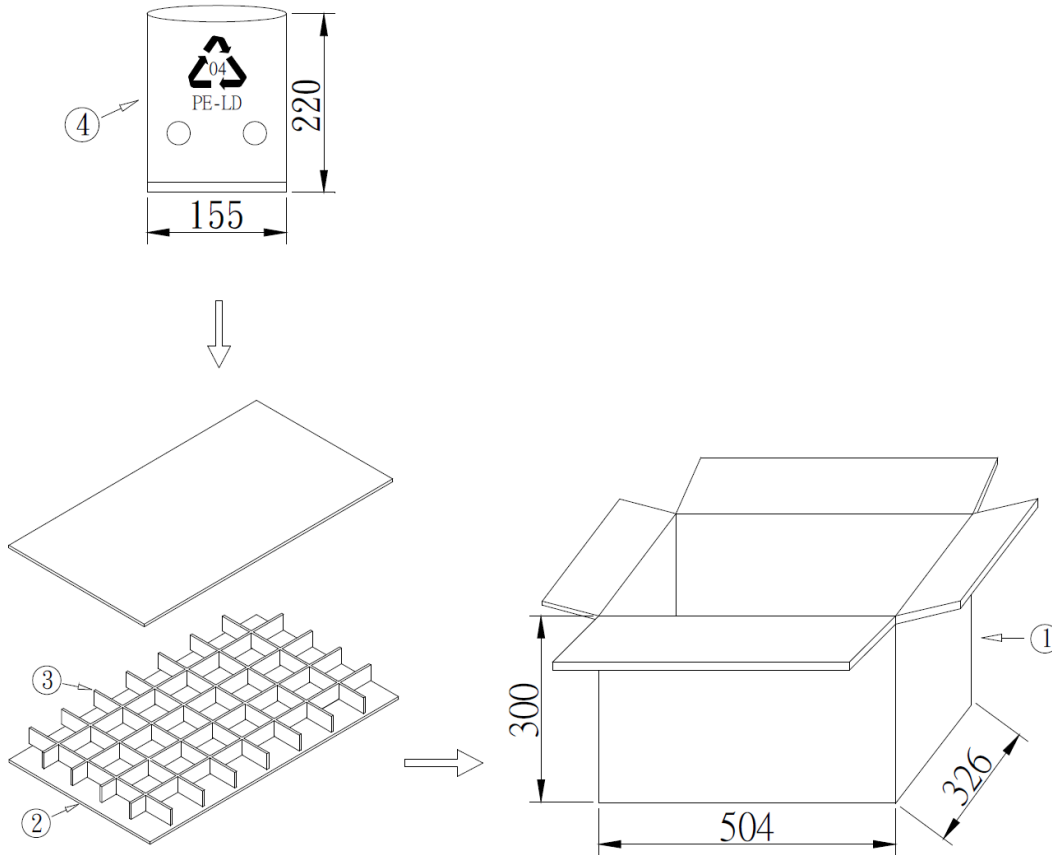
European Plug:



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

Packing

For US and European Plug:



Packing information:

- CARTON:L*W*H=(504*326*300)+/-5mm A=A
- CLAPBOARD:(487*309)+/-3mm B33 4PCS
- EGG CRATE:487/95*309/36*92 B33
- PLASTIC BAG:L*W=(220*155)mm THICK:0.06mm
- Q'TY:40*3=120PCS
- NET WEIGHT: 78.5 (g)(ref)
- UNIT: mm

NOTE: 1. Datasheets are updated as needed and as such, specifications are subject to change without notice. Once printed or downloaded, datasheets are no longer controlled by Aimtec; refer to www.aimtec.com for the most current product specifications. 2. Product labels shown, including safety agency certifications on labels, may vary based on the date manufactured. 3. Mechanical drawings and specifications are for reference only. 4. All specifications are measured at an ambient temperature of 25°C, humidity<75%, nominal input voltage and at rated output load unless otherwise specified. 5. Aimtec may not have conducted destructive testing or chemical analysis on all internal components and chemicals at the time of publishing this document. CAS numbers and other limited information are considered proprietary and may not be available for release. 6. This product is not designed for use in critical life support systems, equipment used in hazardous environments, nuclear control systems or other such applications which necessitate specific safety and regulatory standards other the ones listed in this datasheet. 7. Warranty is in accordance with Aimtec's standard Terms of Sale available at www.aimtec.com. 8. Adaptors are intended for industrial use only.