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## AMA10-GY



Wall Mount Adapter

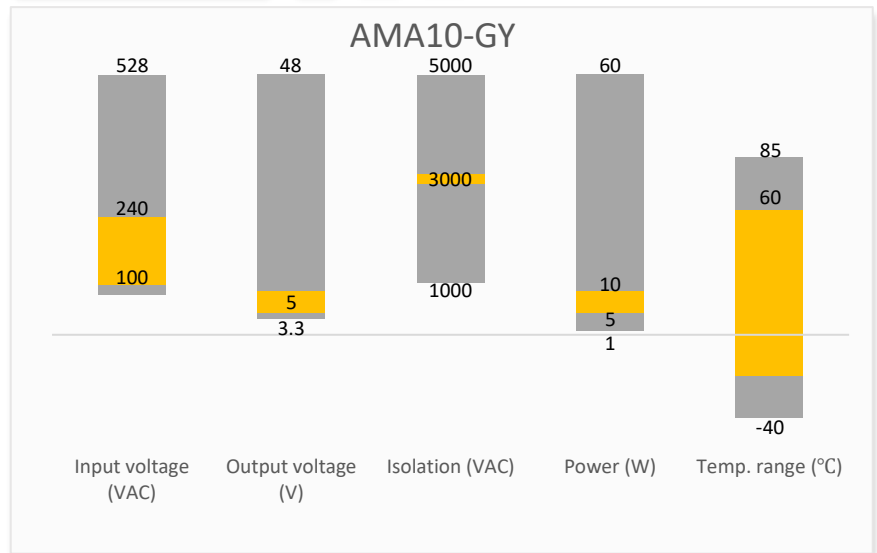
The AMA10-GY is a small industrial grade wall mount adapter offering a commercial input voltage range of 100-240VAC and an output power of 10W. This adapter will offer many benefits to powering your system such as low power consumption, high efficiency, meets UL62368-1, FCC, Class B, CISPR22, Class B.

It also features an isolation of 3000VAC for improved reliability and system safety and comes standard with output over-voltage protection (OVP), over-load protection (OLP) and output short circuit protection (OSCP).

## Features

- Wide Input: 100-240VAC
- Operating Temp: -20°C to +60 °C
- Isolation voltage: 3000VAC
- Low ripple & noise, 75mV(p-p)
- Over-load, over voltage and short circuit protection
- Low leakage current: < 0.25mA

## Summary



## Training



Product Training Video  
(click to open)



Press Release

Coming Soon!

Application Notes

## Applications



Industrial



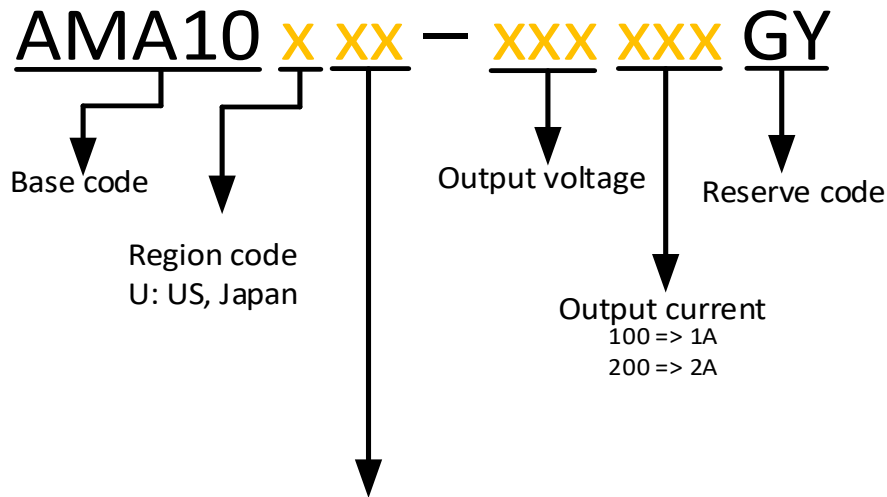
Portable Equipment

## Models & Specifications

### General Features

Model	Input Voltage (VAC/Hz)	Output Voltage (VDC)	Output Current max (A)	Output Power max (W)	Efficiency (%)
AMA10-050100GY	100~240/50~60	5	1	5	76
AMA10-050200GY	100~240/50~60	5	2	10	80

Please refer to below coding rule for completed part numbers. Eg. AMA10U3-050200GY for industrial grade adapter with US wall plug which comes with USB type A female port embedded in the adapter body output plug.



Plug type	Code	
USB	U3	USB type A female port embedded in the adapter body (no external wires)

### Input Specifications

Parameters	Conditions	Typical	Maximum	Units
Input Current	230VAC	0.5		A
Inrush Current	230VAC	65		A
Leakage Current	240VAC	<0.25		mA

### Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy	Rated load	± 5		%
Line regulation	Rated load	± 3		%
Load regulation	Rated load	± 5		%
Ripple & Noise*	5 VDC Output		75	mV p-p
Start-up time	230VAC input, full load	1		s
Rise time	230VAC input, full load	30		ms
Hold up time	230VAC input, full load	25		ms

\* Ripple and Noise are measured at 20MHz bandwidth.

Isolation Specifications				
Parameters	Conditions	Typical	Maximum	Units
Tested I/O voltage		3000		VAC
Tested Input to GND voltage		2000		VAC
Tested Output to GND voltage		500		VAC
Insulation resistance	Input to Output, I/O to PE, 500VDC, 25°C, 70%RH	100		MΩ

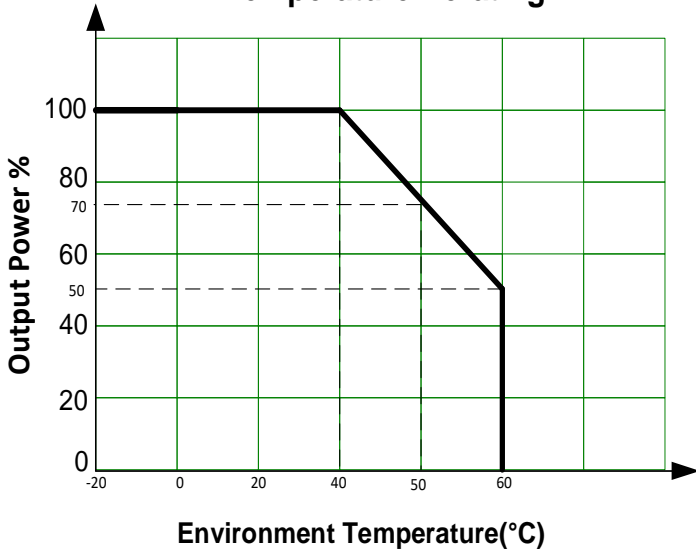
General Specifications				
Parameters	Conditions	Typical	Maximum	Units
Over-load protection	Hiccup mode, recovers automatically after fault condition is removed	105	130	% of Iout
Over voltage protection	Shut down o/p voltage, re-power on to recover	105	130	% of Iout
Short circuit protection	Shut down o/p voltage, re-power on to recover			
Operating temperature	20% ~ 95% RH Non-Condensing	-20 to +60		°C
Storage temperature	10 ~ 95% RH	-40 to +85		°C
Cooling	Free air convection			
Power derating	+40°C to +60°C	2.5		% / °C
Case material	Plastic			
Weight		50		g
Dimensions (L x W x H)	2.17 x 1.44 x 0.93 inches (55.00 x 36.50 x 23.50 mm)			
MTBF	> 100 000 hrs min. MIL-HDBK-217F(25°C)			
NOTE: 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		
Agency approval	Designed to meet UL62368-1, ETL	
Standards	EMC - Conducted and radiated emission	FCC Part 15/CISPR22, CAN ICES-3(B) NMB-3(B), Class B
	EMC - Immunity	FCC Part 15/CISPR22, CAN ICES-3(B) NMB-3(B), Class B

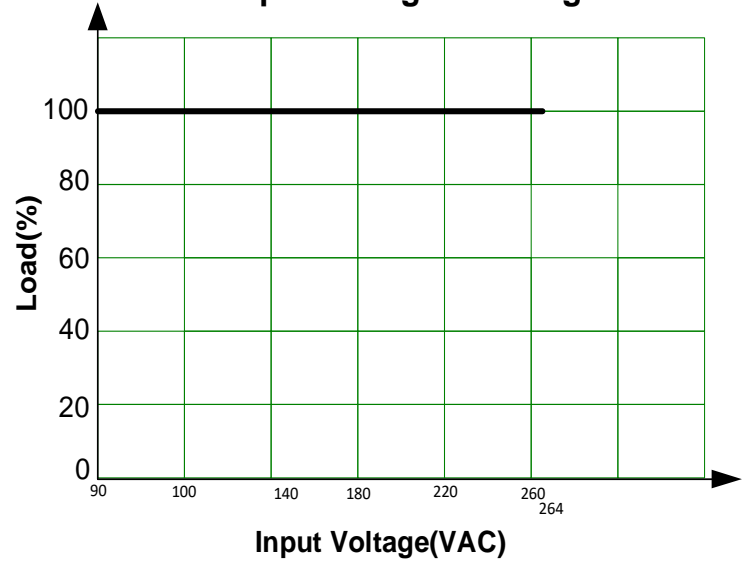
Derating



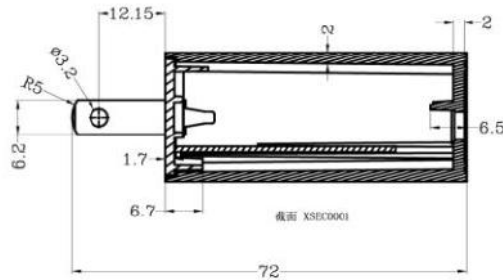
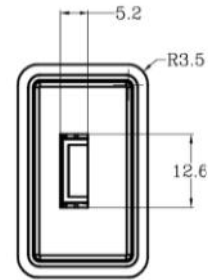
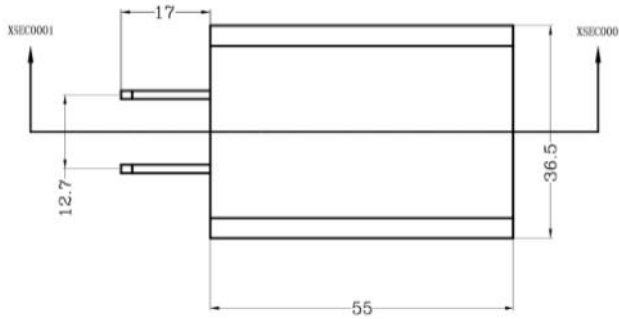
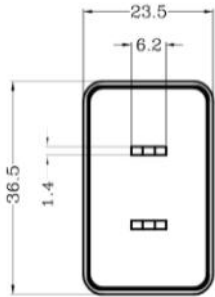
Temperature Derating



Input Voltage Derating



Dimensions



**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](http://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](http://www.aimtec.com). 8. Adapters are intended for industrial use only.