

AMA10-GY

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Wall Mount Adapter

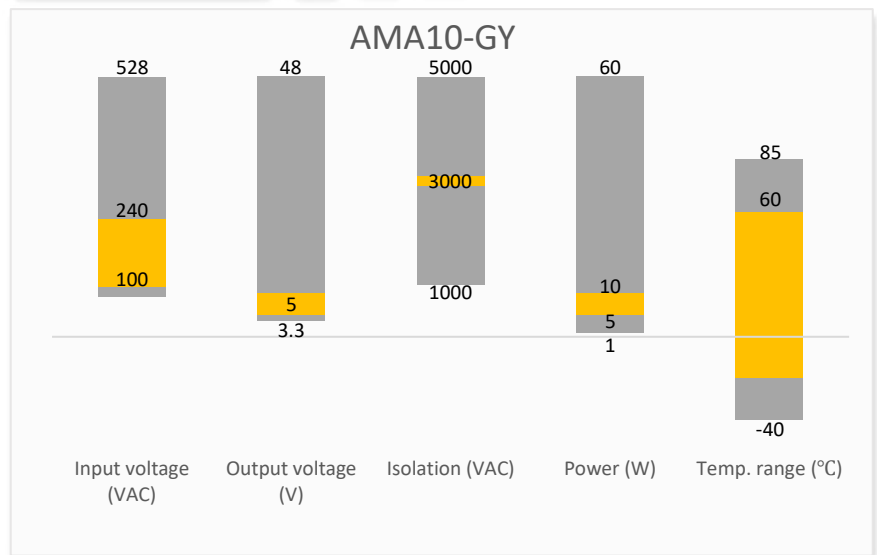
The AMA10-GY is a small industrial grade wall mount adapter offering a commercial input voltage range of 100-240VAC and an output power of 10W. This adapter will offer many benefits to powering your system such as low power consumption, high efficiency, meets UL62368-1, FCC, Class B, CISPR22, Class B.

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



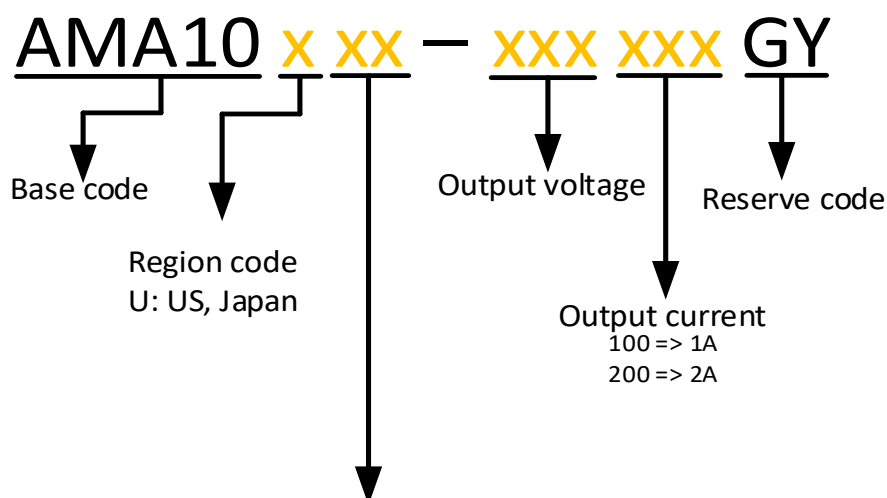
Portable Equipment

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.

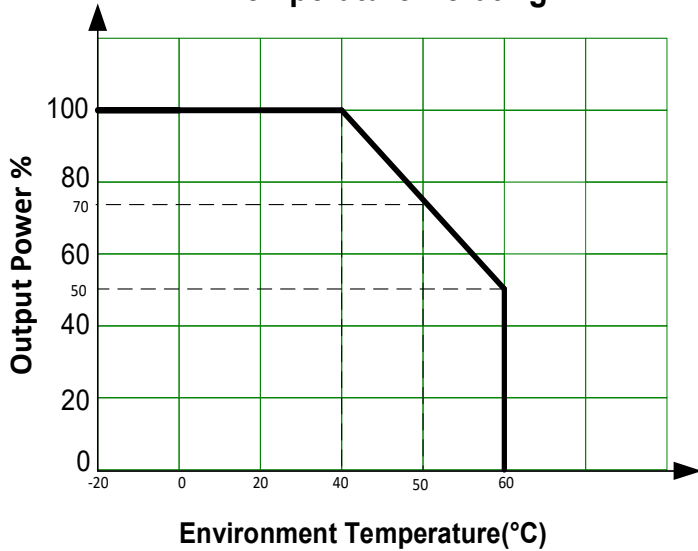
Safety Specifications

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	

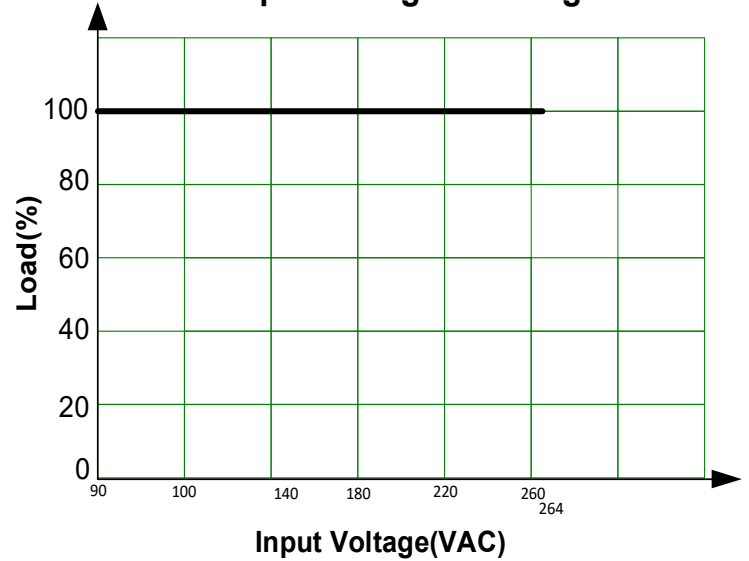
Derating



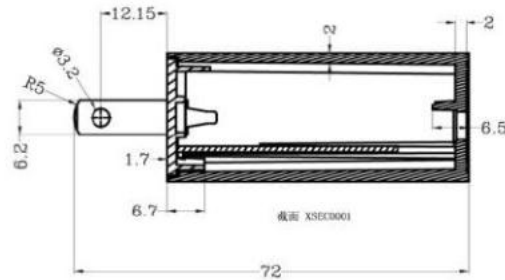
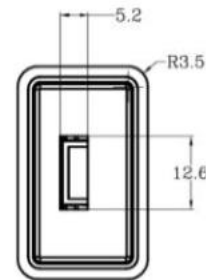
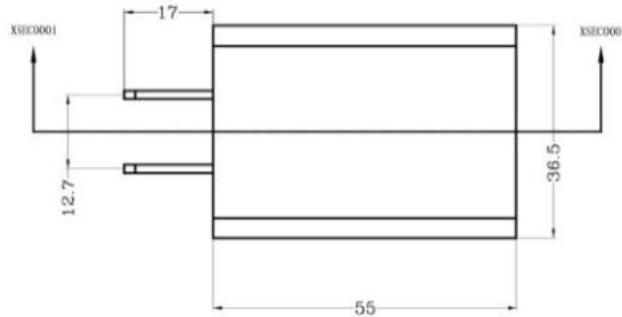
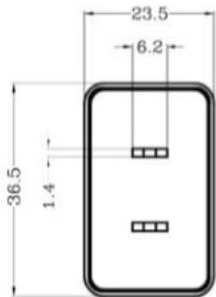
Temperature Derating



Input Voltage Derating



Dimensions



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