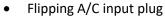




87W, 110-240Vac Input, USB Type-C Wall-Mount Adapter

Features

- Single output to 87W
- 110-240Vac Universal input
- Frequency: 50/60Hz
- OVP, OCP, OTP, and short circuit protection
- Efficiency: level VI
- QC3.0: Quick Charge 3rd edition
- PD3.0: Power Delivery 3rd edition
- USB-C output connector
- Compatible with Apple MacBook, iPad Pro, Samsung Galaxy
 Note 7, LG G5, Nexus 5X / 6P, Nokia N1 Tablet, Chromebook
 Pixel 2015 and other USB-C devices which request less than 87W.



• Dimensions: 120x83x31mm

Applications

• Personal electronic devices

■ Model List

Model	Output Voltage	Output Current	Efficiency(typ.)	Power
WM087-PD3-A-IUSBC	5V	3A	81%	87W
	9V	3A	85%	87W
	12V	3A	86%	87W
	15V	3A	86%	87W
	19V	4.35A	86%	87W
	20V	4.35A	86%	87W

■ Technical Data

AC Input Voltage	110-240Vac	
Ac Input Frequency	50/60Hz single phase	
AC Input Current	1.5A max. @110Vac input 60Hz, with DC output full load	
Standby wattage	< 0.21W @240Vac input and no-load condition	
Inrush current	60A max. @cold start and 25°C, DC output full-loading and 240Vac input	
QC3.0	5V/3A, 9V/3A, 12V/2.25A	
Minimum load	Outputs will maintain regulation with no load	
Hold-up Time	15mS min @ DC output full-loading and 230Vac Input	
Ripple and Noise	≤200mV	
Output Voltage Over-shoot	Over-shoot≤5% normal output voltage, no spikes more than 5% of the rated voltages will occur during turn on, turn off, power failure or recovery from a fault condition	
Transient Response	+2-V outpus: on the +20V output from 0A to 1.5A, maximum voltage deviation is 5%	
Short Circuit Protection	Auto recovery function	

Energy Efficiency





*Product images are for illustrative purposes only and may vary from actual design.



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■ Technical Data(cont.)

Over Voltage Protection	Auto recovery function, tripped voltage will be <24Vdc	
Over Current Protection	Current limit: Iout*150% (max @main output stage)	
Over Temperature	The output power of the main supply decreases in a linear way when the temperature	
Protection	of case reaches 75°C	
Turn on Time	AC to the DC outputs of the Adapter, within 3 seconds max at 25°C and line @230Vac	
Diag Times	Rise time shall be less than 50mS, it should be measured from 110% to 90% of the	
Rise Time	output voltage	
Temperature Coefficient	0.03/°C typical on output	
Operation Temperature	0°C to 30°C	
Storage Temperature	-20°C to 65°C	
Operation Humidity	10% to 90%	
Storage Humidity	10% to 90%	
Altitude	From sea level to 2000m	
Life	20000 hours@ DC output full-loading, AC 230Vac input & ambient temperature@25°C	
MTBF	When the supply operation within any of the limits of the specification the MTBF shall	
IVIIDF	be at least 40,000 hours at 25°C (MIL-STD-217F)	
Dimensions	120x83x31mm	
Weight	259.4g	
Burn-In	The poser supply will be performed a minimum for 4 hours Burn-In at 30°C under full	
Bulli-III	load on all power supplies calculate MTBF	
Temperature Rise	Less than 52°C @AC 230Vac input and DC output full load and Environment	
	temperature 25°C	
Vibration test	Nonoperation vibration with shipping container shall be 2G's Peak/7-50Hz, 4G's/50-	
	500Hz, after test of abnormality to be found. Operation vibration shall be 0.5G's	
	peak/10-60Hz, 3 Axes, after Test no abnormality to be noted	
Drop Test	The product to be dropped from 1-meter height to a concrete floor no breakage then	
	do the function test, it should be normal	
Cable Flexing Test	The DC cord shall with weight of 200g, it swings at angle 60°, 2000cycle time min.	
Capie Heville 1630	Bending speed: 40 cycle per minute shall be no breakage to the code	

NOTE: All specifications hold over full temperature range of 0 to 30°C unless otherwise noted.

Measured with a scope, DC-20 MHz bandwidth, differential mode, measured at the pins of the matching connector of which each output is decoupled by a high frequency 0.1uF cap and a 47uF electrolytic cap.

■ Safeties

Leakage Current	Less than 0.25mA at 240Vac, 50Hz
Hi-Pot Test	3000Vac, 5mA, 3Sec. between Primary to Secondary ground
Insulation	At DC 500Vdc, 3Sec. between Primary to Secondary circuit
Safety Standards	IEC/UL/EN60950/GB4943
EMC	GB9254/EN55022/FCC

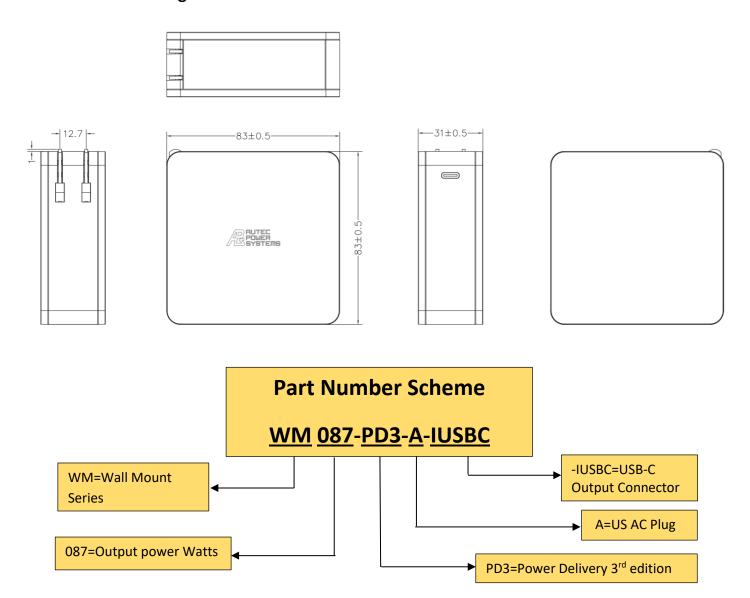
Disclaimer:

Autec Power Systems' (Autec) Power Supplies are Hi-Pot tested during the manufacturing process. Autec assumes no responsibility for secondary Hi-Pot testing at customer location or designated production line(s). Should customer require further Hi-Pot testing, at their own production line, following assembly of the Power Supply into the customer's assembled fixture, Autec requests advance notice. This request must be communicated to Autec in a timely manner and is recommended to be requested at time of issuing each purchase order.



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■ Mechanical Diagram



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^{*}Specifications are subject to change without notice. Autec is not responsible for issues arising from errors or omissions.