

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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AA07S Series

7W Single Output AC/DC converter



FEATURES

- Ultra-compact AC-DC power supp ly for PCB Mounting
- Over Load and Over Voltage Protection
- EMI meets EN55022, Class B and EMS compliance to EN61000-4
- Universal Input voltage range 85-264 VAC, 47-440 Hz
- 3kVAC Isolatoin ,Protection Class II level
- UL/IEC/EN 60950-1 Certified , CE Marked
- Lead free, RoHs Compliant
- 3 Years Product Warranty

















The AA07S series , isolated fully encapsulated 7W AC/DC power module with 3,000VAC isolation. With Universal input voltage 85-264VAC and International safety approvals, these power modules are ideal for applications in commercial and industrial electronic equipment. These isolated AC/DC converters are the latest offering from a world leader in power systems technology and manufacturing — Delta Electronics, Inc. With creative design technology and optimization of component placement, these converters possess outstanding electrical and thermal performance, as well as extremely high reliability under highly stressful operating conditions.

Model List								
Model	Output	Output Current	Input Current	Max. capacitive	Efficiency			
Number	Voltage		115VAC, 60Hz	Load	(typ.)			
		Max.	@Max. Load		@Max. Load			
	VDC	mA	mA(typ.)	uF	%			
AA07S0300A	3.3	1400	96	2200	70			
AA07S0500A	5	1400	139	2200	73			
AA07S1200A	12	583	130	1000	78			
AA07S1500A	15	466	130	1000	78			
AA07S2400A	24	291	130	680	78			

Input Characteristics							
Parameter	Model	Min.	Тур.	Max.	Unit		
Input Voltage Range		85		264	VAC		
Input Frequency Range	All Models	47		440	Hz		
Input Voltage Range		120		370	VDC		
No-Load Power Consumption				0.3	W		
In the Comment (Cold Chart at 25°C)	115VAC			10	Α		
Inrush Current (Cold Start at 25°C)	230VAC			20	Α		



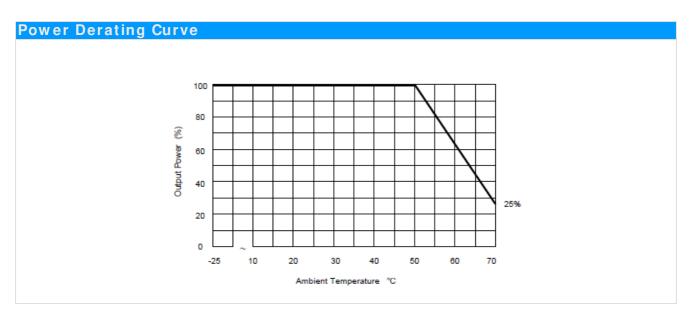
Output Characteris	stics					
Parameter	Conditions	Min.	Тур.	Max.	Unit	
Output Voltage Accuracy			±1.0	±2.0	%	
Line Regulation	Vin=Min. to Max.		±0.5	±1.0	%	
Load Regulation	Iout=Min. to Max.		±0.5	±1.0	%	
Ripple & Noise (20MHz)	3.3 & 5.0VDC Output Models		1.5	1.8	%V _{PP} of	
	Other Output Models		0.8	1.0	%V _{PP} of	
Minimum Load			10		%Inom.	
Over Voltage Protection	Zener diode clamp		120		% of Vo	
Temperature Coefficient			±0.01	±0.02	%/°C	
Overshoot				5	% Vout	
Current Limitation	Foldback, auto-recovery (long term overload condition may cause damage)	105			%Inom.	
Short Circuit Protection	Hiccup mode, indefinite (automatic recovery)					

General Charact	eristics				
Parameter	Conditions	Min.	Тур.	Max.	Unit
I/O Isolation Voltage	Input to Output, 60 Seconds	3000			VACrms
I/O Isolation Resistance	500 VDC	100			MΩ
Switching Frequency			100		KHz
Hold-up Time			20		ms
MTBF (calculated)	MIL-HDBK-217F@25°C, Ground Benign	330,000			Hours
EMC Emission	Conducted and radiated	EN 55011, clas	EN 55011, class B, EN 55022, class B, FCC		
	Standard	Specification Requirement		Performance Criteria	
	EN61000-4-2	Air ±8KV Cont. ±4KV		В	
	EN61000-4-3	80~1000MHz, 10V/m 80% AM, 1KHz modulation		Α	
EMC Immunity according	EN61000-4-4	AC port ±2KV DC, SL, TL ±2KV not less than 1 min.			В
EN61000-6-1	EN61000-4-5	1.2/50uS(8/20uS) AC dif. ±1KV DC ±0.5KV		В	
	EN61000-4-6	0.15~80MHz, 10Vrms (functional earth ports included) 80% AM, 1KHz modulation			В
	EN61000-4-8	50Hz/60Hz, 30A/m		Α	
	EN04000 4 44	30%, 10ms			В
	EN61000-4-11	60%, 100ms, 95%, 5000ms			С
Protection Class II		According IEC/EN 60536			
Safety Approvals		cUL/UL 609	950-1,IEC/EN 60	950-1	

Recommended Input Fuse					
All Models					
External Fuse (Recommended) 1.5A Slow – Blow Type					

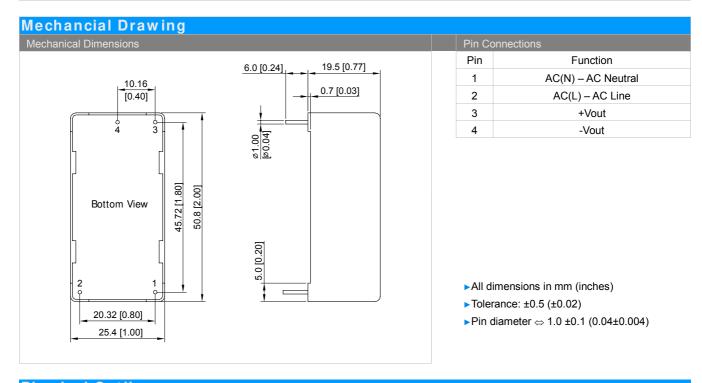
Environmental Specifications						
Parameter		Conditions				
Temperature Range (operational)	Ambient	-25°C	+70°C			
Storage Temperature Range		-40°C	+85°C			
Over Temperature Protection	at 90°C (automatic recovery at 67°C)					
Cooling	Free-Air convection					
Humidity (non condensing)			95 % rel. H			





Notes

- 1 All specifications typical at Ta=+25°C, resistive load, 115VAC, 60Hz input voltage and after warm-up time rated output current unless otherwise noted.
- 2 Ripple & Noise measurement bandwidth is 0~20 MHz
- These power modules require a minimum output loading to maintain specified regulation, operation under no-load conditions will not damage the power supplies however they may not meet all listed specifications.
- 4 All AC/DC modules should be externally fused at the front end for protection.
- 5 Other input and output voltage may be available, please contact for custom solution
- 6 Specifications subject to change without notice



Physical Outlines

Case Size : 50.8x25.4x19.5mm (2.00x1.00x0.77 Inches)

Case Material : Plastic resin + Fiberglass (flammability to UL 94V-0 rated)

Weight : 44g



Part Numbering System							
А	А	07	S	05	00	A	
Product type	Family series	Watt	Number of Outputs	Output Voltage I	Output Voltage II	Option Code	
AC/DC Power Module	Industrial application	07 - 7W	S - Single	03 - 3.3V	00 - not applicable	A - PCB Mount	
				05 - 5V			
				12 - 12V			
				15 - 15V			
				24 - 24V			

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WARRANTY

Delta offers a three(3) years limited warranty. Complete warranty information is listed on our web site or is available upon request from Delta.

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