

AA10S Series

10W Single Output AC/DC Power Module



FEATURES

- Ultra-compact AC-DC power supply 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
- UL/IEC/EN 60950-1 Certified, CE Marked
- 3kVAC Isolatoin, Protection Class II level
- Lead free, RoHs Compliant
- 3 Years Product Warranty



















The AA10S series , isolated fully encapsulated 10W 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	%
AA10S0300A	3.3	2500	171	2200	70
AA10S0500A	5	2000	201	2200	72
AA10S1200A	12	833	191	1000	76
AA10S1500A	15	667	193	1000	75
AA10S2400A	24	417	201	680	72

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		
lament (Cold Start at 25°C)	115VAC			15	Α		
Inrush Current (Cold Start at 25°C)	230VAC			30	Α		



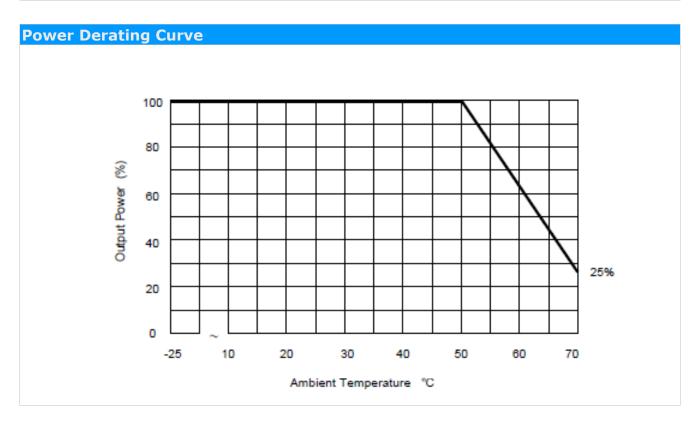
Output Characteristics							
Parameter	Conditions	Min.	Тур.	Max.	Unit		
Output Voltage Accuracy			±1.0	±2.0	%		
Line Regulation	Vin=Min. to Max.		±0.5	±1.0	%		
Load Regulation	Iout=Min. to Max.		±0.5	±1.0	%		
Ripple & Noise (20MHz)	3.3 & 5.0VDC Output Models		1.5	1.8	%V _{PP} of		
	Other Output Models		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 Characteristics							
Parameter	Conditions	Min.	Тур.	Max.	Unit		
I/O Isolation Voltage	Input to Output, 60 Seconds	3000			VACrms		
I/O Isolation Resistance	500 VDC	100			ΜΩ		
Switching Frequency			125		KHz		
Hold-up Time			20		ms		
MTBF (calculated)	MIL-HDBK-217F@25°C, Ground Benign	300,000			Hours		
EMC Emission	Conducted and radiated	EN 55011, class	B, EN 55022, cl	ass B, FCC	oart 15, class B		
	Standard	Specifica	tion Poquiromon		Performance		
	Standard	Specification Requirement			Criteria		
	EN61000-4-2	Air ±8KV Cont. ±4KV		В			
	EN61000-4-3	80~1000MHz, 10V/m 80% AM, 1KHz modulation		Α			
	EN61000-4-4	AC port ±2KV DC, SL, TL ±2KV not less than 1 min.		В			
EMC Immunity according	EN61000-4-5	1.2/50uS(8/20uS) AC dif. ±1KV DC ±0.5KV		В			
EN61000-6-1		0.15~80MHz, 10Vrms (functional earth ports			В		
	EN61000-4-6	included)					
		80% AM, 1KHz modulation					
	EN61000-4-8	50Hz/60Hz, 30A/m			Α		
	EN61000-4-11	30%, 10ms			В		
	EN01000-4-11	60%, 100ms, 95%, 5000ms			С		
Protection Class II		Accordin	ig IEC/EN 60536				
Safety Approvals		cUL/UL 6095	0-1,IEC/EN 609	50-1			

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



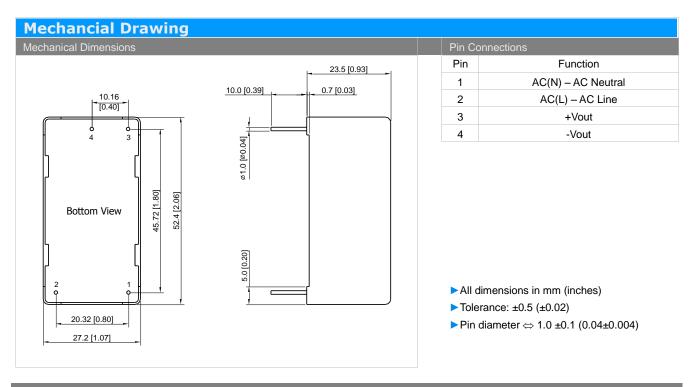
Environmental Specifications							
Parameter Conditions							
Temperature Range (operational)	Ambient	-25°C	+70°C				
Storage Temperature Range		-40°C	+85°C				
Over Temperature Protection	at 90°C (automatic recovery at 67°C)						
Cooling	Free-Air convection						
Humidity (non condensing)			95 % 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
- 3 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 us for custom solution
- 6 Specifications subject to change without notice





Physical Outline		
Case Size	:	52.4x27.2x23.5mm (2.06x1.07x0.93 Inches)
Case Material	:	Plastic resin + Fiberglass (flammability to UL 94V-0 rated)
Weight	:	54g

Part Numbering System							
А	A	10	S	05	00	А	
Product type	Family series	Watt	Number of Outputs	Output Voltage I	Output Voltage II	Option Code	
AC/DC Power Module	Industrial application	10 - 10W	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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