

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

	Δ			S	R	E	品
Security	Lab	Medical	Metro	Data Center	Telecom	Industrial	Network

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.	Min. Typ.		Unit		
Input Voltage Range		85		264	VAC		
Input Frequency Range		47		440	Hz		
Input Voltage Range	All Models	120		370	VDC		
No-Load Power Consumption				0.3	W		
Inrush Current (Cold Start at 25°C)	115VAC			10	А		
mush current (Cold Start at 25 C)	230VAC			20	А		



Output Characteris						
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	lout=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	s B, EN 55022, o	class B, FCC	part 15, class B
	Standard	Specification Requirement		Performance Criteria	
	EN61000-4-2	Air ±8KV Cont. ±4KV		В	
	EN61000-4-3	80~1000MHz, 10V/m 80% AM, 1KHz modulation		А	
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	3) AC dif. ±1KV E	DC ±0.5KV	В
	EN61000-4-6	0.15~80MHz, 10 80% AM	Vrms (functional included) , 1KHz modulati		В
	EN61000-4-8	50Hz/60Hz, 30A/m			А
		30%, 10ms			В
	EN61000-4-11	60%, 10	0ms, 95%, 5000i	ms	С
Protection Class II		Accordi	ng IEC/EN 6053	6	
Safety Approvals		cUL/UL 609	50-1,IEC/EN 60	950-1	

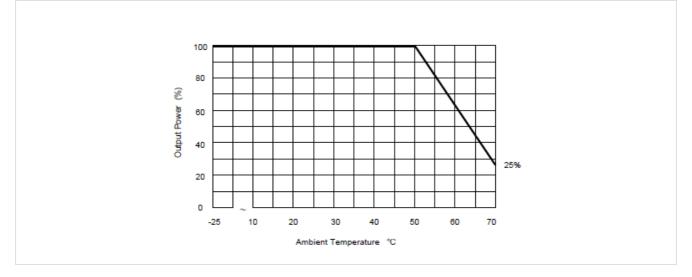
Recommended Input Fuse

	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				

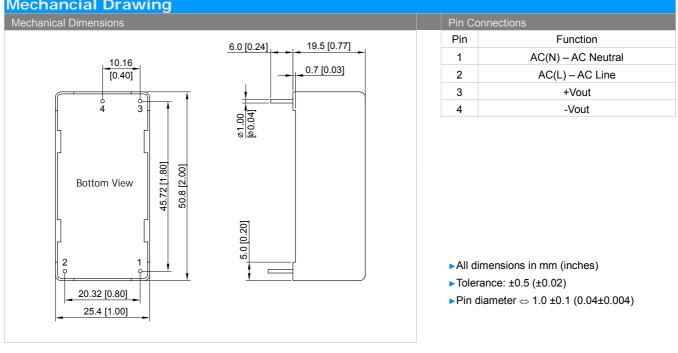


Power Derating Curve



Notes

- All specifications typical at Ta=+25°C, resistive load, 115VAC, 60Hz input voltage and after warm-up time rated output current unless 1 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 3 damage the power supplies however they may not meet all listed specifications.
- All AC/DC modules should be externally fused at the front end for protection. 4
- Other input and output voltage may be available, please contact for custom solution 5
- Specifications subject to change without notice 6



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			

Mechancial Drawing



Part Numbering System								
А	А	07	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	07 - 7W	S - Single	03 - 3.3V	00 - not applicable	A - PCB Mount		
				05 - 5V				
				12 - 12V				
				15 - 15V				
				24 - 24V				

CONTACT: www.deltaww.com/dcdc

USA: Telephone: East Coast: 978-656-3993 West Coast: 510-668-5100 Fax: (978) 656 3964 Email: <u>DCDC@delta-corp.com</u>

Europe: Phone: +31-20-655-0967 Fax: +31-20-655-0999 Email: <u>DCDC@delta-es.com</u> **Asia & the rest of world:** Telephone: +886 3 4526107 ext 6220~6224 Fax: +886 3 4513485 Email: DCDC@delta.com.tw

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.

Information furnished by Delta is believed to be accurate and reliable. However, no responsibility is assumed by Delta for its use, nor for any infringements of patents or other rights of third parties, which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of Delta. Delta reserves the right to revise these specifications at any time, without notice.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for AC/DC Power Modules category:

Click to view products by Delta manufacturer:

Other Similar products are found below :

 TUNS700F28-P
 TUHS5F15
 CFM21M120-E
 TUHS25F15
 CFM21M240
 CFM21M050
 CFM21M150
 TUHS15F15
 CFM21M240-E

 TUHS10F15
 CFM21M090-E
 CFM21M120
 CFM21M050-E
 ERP-350-12
 VI-HAM-IM
 LD03-10B12R2
 CFM21M240-T
 ERS4120N007R26

 TUNS1200F28
 TUNS1200F48
 DAC25-26FWX
 MP450-V#K#K
 TMPS 03-112
 TMPS 03-124
 IRM-03-95
 TMPS 03-109

 TPP 40-112
 TPP 65-105
 TPP 65-112
 GLM110-524
 VCE05US12
 RAC04-12DC/277-E
 RAC04-05DC/277-E

 VCE10US24
 KMS15-9
 RAC03-24SE/277/W
 RAC04-0512DC/277-E
 MFM-15-12
 MFM-15-5
 MFM-20-12
 MFM-20-24

 MFM-20-5
 MPM-05-24
 MPM-05-5
 MPM-10-12
 MPM-10-24