

AA15S/D/T Series

15W Single, Dual, and Triple Output AC/DC Power Module





The AA15S/D/T series , isolated fully encapsulated 15W 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. industrial electronic equipment.

	Output	Output Current	Input C	urrent	Max. capacitive	Efficiency		
Model Number	Voltage		115VAC	, 60Hz	Load	(typ.)	UL60950-1	UL508
		Max.	@Max. Load	@No Load		@Max. Load	Approval	Approval
	VDC	mA	mA(typ.)	mA(typ.)	μF	%		
AA15S0500A	5	3000	290	30	3900	75	0	0
AA15S1200A	12	1250	275	30	2200	79	0	0
AA15S1500A	15	1000	275	30	2200	79	0	0
AA15S2400A	24	625	275	30	1000	79	0	0
AA15S4800A	48	310	273	30	680	79	0	0
AA15D1212A	±12	±650	275	30	*1500	79	0	0
AA15D1515A	±15	±500	275	30	*1500	79	0	0
A 4 5 D 0 5 4 0 A	5	1500	202	00	2000	70	-	
AA15D0512A	*12	625	302	30	1500	72	0	
	5	2000			2200			
AA15T051212A	*12	200	290	30	1500	74	0	
	*-12	-200			1500			
	*5	2000			2200			
AA15T051515A	*15	150	284	30	1500	74	0	
	*-15	-150			1500			



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

Output Charact	eristi	CS					
Parameter		Conditions			Тур.	Max.	Unit
Output Voltage Accuracy					±1.0	±2.0	%
Line Regulation			Vin=Min. to Max.		±0.5	±1.0	%
Lood Dogulation		lout=Min. to Max.	Single Output Models		±0.5	±1.0	%
Load Regulation		Tout=Min. to Max.	Dual/ Triple Output Models		±2.5	±5.0	%
Cross Regulation-	Vo1	NA			±1.0		%
Dual Positives / Triple	Vo2		ut lo = 20% to 100% of rated load		±2.5		%
Output	Vo3	Other outp	Other output(s) set at 50% of rated load		±2.5		%
Dinala & Naisa (20MUz)		5VDC Output Models			1.5	1.8	$%V_{PP}$ of Vo
Ripple & Noise (20MHz)		Other Output Models			0.8	1.0	$\%V_{\text{PP}}$ of Vo
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 (aut	tomatic rec	overy)		

General Charac	teristics								
Parameter	Condit	ions	Min.	Тур.	Max.	Unit			
I/O Isolation Voltage	Input to Output	, 60 Seconds	3000			VACrms			
I/O Isolation Resistance	500 V	'DC	100			MΩ			
Switching Frequency				100		KHz			
Hold-up Time				20		ms			
MTBF (calculated)	MIL-HDBK-217F@25	°C, Ground Benign	280,000			Hours			
Protection Class II	According IEC/EN 60536								
Safety Approvals	cUL/UL 60950-1,IEC/EN 60950-1								
	UL508 for selective models								
EMC Emission	Conducted a	nd radiated	EN 55011 class B, EN 55032 class B, FCC			15 class B			
	Stand	lard	Specification Requirement			Performance Criteria			
	ESD	EN61000-4-2	Air ±8KV Cont. ±4KV			В			
	Radiated immunity EN61000-4-3		10V/m			А			
EMC Immunity according	Fast transient EN61000-4-4		±2KV,			В			
EN61000-6-1	Surge	EN61000-4-5	±1KV			В			
	Conducted immunity	EN61000-4-6	10Vrms			В			
	PFMF	EN61000-4-8	30A/m			А			
	Dinc	EN61000-4-11	30%, 10ms			В			
	Dips EN61000-4-11		>95%, 5000ms			С			

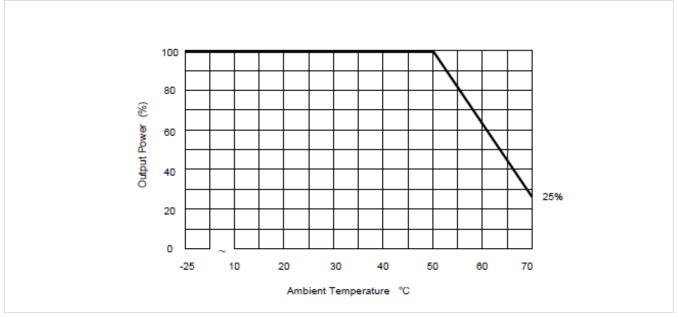


Input Fuse		
	All Models	
Built-in Fuse	2A / 250VAC	
External Fuse (Recommended)	1.5A Slow – Blow Type	

Environmental Specifications

Parameter		Conditions		
Temperature Range (operational)	Ambient	-25℃	+70°C	
Storage Temperature Range		-40°C	+85°C	
Over Temperature Protection	Internal IC junction temperature	140°C shutdown, 65°C automatic recovery		
Cooling		Free-Air convection		
Humidity (non condensing)			95 % rel. H	

Power Derating Curve

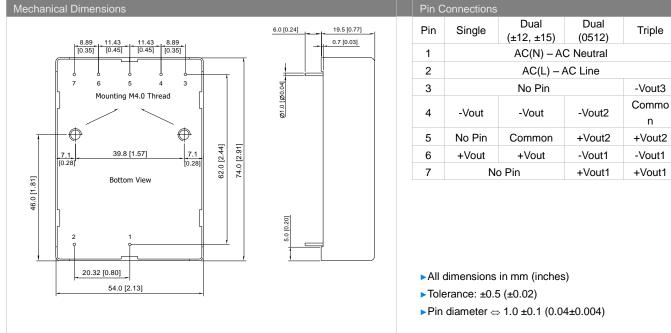


Notes

- 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 Specifications are subject to change anytime without notice

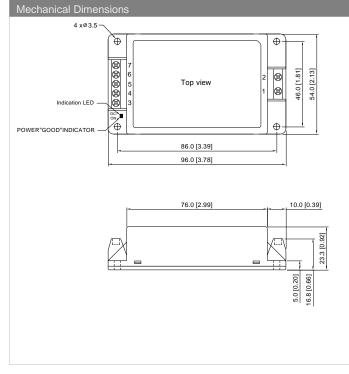


Mechancial Drawing PCB Mount



Physical Outline					
Case Size	: 74.0x54.0x19.5mm (2.91x2.13x0.77 inches)				
Case Material	: Plastic resin + Fiberglass (flammability to UL 94V-0 rated)				
Pin Material	: Copper Alloy with Gold Plate Over Nickel Subplate				
Weight	: 140g				

Mechancial Drawings Chassis Mount (Option code, suffix C)



Connecti	ons					
Termin al	Single (+12			Triple		
1		AC(N) – A	C Neutral			
2		AC(L) -	AC Line			
3		NC				
4	-Vout	-Vout	-Vout2	Comm on		
5	NC	Commo n	+Vout2	+Vout2		
6	+Vout +Vout		-Vout1	-Vout1		
7	N	IC	+Vout1	+Vout1		

NC: No Connection

► All dimensions in mm (inches)

► Tolerance: X.X±0.5 (X.XX±0.02) X.XX±0.25 (X.XXX±0.01)

▶ Pin pitch tolerance: ±0.25 (0.01)

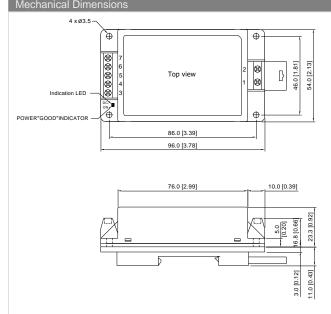
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Physical Outline

Case Size	:	96.0x54.0x23.3mm (3.78x2.13x0.92 inches)
Case Material	:	Plastic resin + Fiberglass (flammability to UL 94V-0 rated)
Weight	:	130g

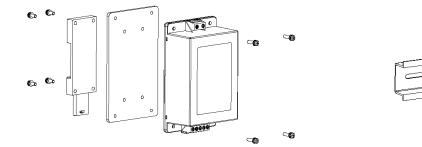
Mechancial Dawings Chassis Mounting with DIN Rail Kit (Option code, suffix D)

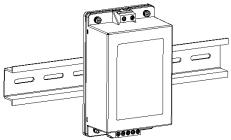


Physical Outline

Case Size	:	96.0x54.0x23.3mm (3.78x2.13x0.92 inches)
Case Material	:	Plastic resin + Fiberglass (flammability to UL 94V-0 rated)
Weight	:	190g

DIN-Rail Mounting Kit







Part Numbering System

А	А	15	т	05	12	12	A			
Product typ	Family series	Watt	Number of Outputs	Output Voltage I	Output Voltage II	Output Voltage III	Option Code			
AC/DC Power Module	Industrial application	15 -15W	S - Single	05 - 5V	00 - not applicable	12 - 12V	A - PCB Mount			
			D - Dual	12 - 12V	12 - 12V	15 - 15V	C - Chassis Mount			
			T - Triple	15 - 15V	15 - 15V		D –C code module + Din-rail kit			
				24 - 24V						
				48 - 48V						

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