

AJC SERIES

40 Watts

KEY FEATURES

- Switching Power Modules for PCB Mounting
- Fully Encapsulated Plastic Case
- Universal Input Range 90-264VAC, 47-440 Hz
- Regulated Output and Low Ripple and Low Noise
- Isolation Class II
- -40°C Starting
- Small Size as ASC 30Watt and 40Watt Higher Wattage
- Screw Terminal For Optional
- CE, UL, cUL, Approvals
- 2-Years Product Warranty



ELECTRICAL SPECIFICATIONS

Model No. (Single Output)		AJC-3.3S	AJC-5S	AJC-9S	AJC-12S	AJC-15S	AJC-24S
Max output wattage (W)		26.4W	40W	40W	40W	40W	40W
Output	Voltage (V.DC.)	3.3V	5V	9V	12V	15V	24V
	Current (mA) max	8000	8000	4444	3333	2666	1667
	Voltage set accuracy	±2%	±2%	±2%	±2%	±2%	±2%
	Line regulation (Typ.)	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%
	Load regulation (1-100%) (Typ.)	1%	1%	1%	1%	1%	1%
	Minimum load	1%	1%	1%	1%	1%	1%
	Maximum Capacitive Load	60000 uF	40000 uF	7200 uF	8600 uF	6600 uF	1400 uF
	Efficiency (Typ)	76%	81%	83%	84%	83%	83%

Model No. (Dual Output)		AJC-5D		AJC-12D		AJC-15D	
Max output wattage (W)		40W		40W		40W	
Output		Output 1	Output 2	Output 1	Output 2	Output 1	Output 2
	Voltage (V.DC.)	+5V	-5V	+12V	-12V	+15V	-15V
	Current (mA) max	4000	4000	1666	1666	1333	1333
	Voltage set accuracy	±2%		±2%		±2%	
	Line regulation (Typ.)	0.5%		0.5%		0.5%	
	Load regulation (10-100%) (Typ.)	1% (symmetric load)		1% (symmetric load)		1% (symmetric load)	
	Cross regulation (15-100%) (Typ.)	±5%		±5%		±5%	
	Minimum load	10%		10%		10%	
	Maximum Capacitive Load	±12000 uF		±4400 uF		±1000 uF	
	Efficiency (Typ)	81%		83%		83%	

Model No. (Dual Output)		AJC-5S12S		AJC-5S24S	
Max output wattage (W)		40W		40W	
Output		Output 1	Output 2	Output 1	Output 2
	Voltage (V.DC.)	5V	12V	5V	24V
	Current (mA) max	5000	1250	5000	625
	Voltage set accuracy	±3%	±5%	±3%	±5%
	Line regulation (Typ.)	0.5%	5%	0.5%	5%
	Load regulation (10-100%) (Typ.)	2% (symmetric load)	6% (symmetric load)	2% (symmetric load)	6% (symmetric load)
	Cross regulation(25-100%) (Typ.)	±1%	±7%	±1%	±7%
	Minimum load	25%		25%	
	Maximum Capacitive Load	10000 uF	470 uF	10000 uF	400 uF
	Efficiency (Typ)	82%		82%	

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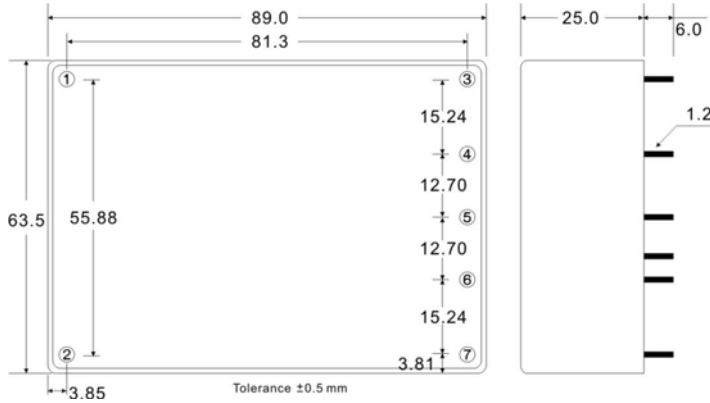
Model No. (Triple Output)		AJC-5S12D			AJC-5S15D	
Max output wattage (W)		40W			40W	
Output		Output 2	Output 3	Output 1	Output 2	Output 3
	Voltage (V.DC.)	+12	-12	5	+15	-15
	Current (mA) max	600	600	5000	500	500
	Voltage set accuracy	±5%		±3%	±5%	
	Line regulation (Typ.)	5%		0.5%	5%	
	Load regulation (10-100%) (Typ.) (symmetric load)	7%		3%	7%	
	Cross regulation (Typ.)	±7%		±3%	±7%	
	Minimum load	25%			25%	
	Maximum Capacitive Load	780 uF		10000 uF	900 uF	
	Efficiency (Typ)	82%			81%	

Input	Voltage	90-264 VAC or 100-375 VDC	
	Frequency (Hz)	47-440 Hz	
	Current (Full load)	860 mA max. (115 VAC) / 460 mA max. (230 VAC)	
	Inrush current (<2ms)	30 A max. (115 VAC) / 50 A max. (230 VAC)	
	Leakage Current	0.75 mA max.	
Output	Maximum capacitive load	470-23,000µF depending on model	
	Ripple & Noise	3.3V : 50mV of Vout	5V~24V : 1% of Vout
	Hold-up time	10 ms min.	
	Switching frequency	132 kHz	
Protection	Over current protection	Above 105% rated output power	
	Over voltage protection	Zener diode clamp	
	Short circuit protection	Hiccup mode, indefinite (automatic recovery)	
	OTP	100°C	
Isolation	Input-Output (V.AC)	3000V	
Environment	Operating temperature	-40°C...+70°C (Case Temperature max. +95°C)	
	Storage temperature	-40°C...+100°C	
	Temperature coefficient	0.01%/°C	
	Humidity	95% RH	
	MTBF	200,000 h~400,000 h @ 25°C	
Physical	Dimension (L x W x H)	3.5 x 2.5 x 0.98 Inches (89.0 x 63.5 x 25.0 mm) Tolerance ±0.5 mm	
	Case Material	Plastic resin + Fiberglass (flammability to UL 94V-0)	
	Weight	280 g	
	Cooling method	Free air convection	
Safety & EMC	Agency Approvals	UL/cUL, CE,	
	EMI (Conducted & Radiated Emission)	EN 55022 class B	
	EMS (Noise Immunity)	EN 55024	

1.All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

2.Ripple & Noise are measured at 20MHz of bandwidth with 0.1µF & 47µF parallel capacitor.

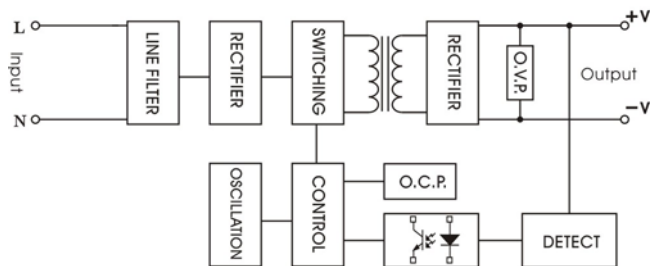
MECHANICAL DIMENSION (Top View)



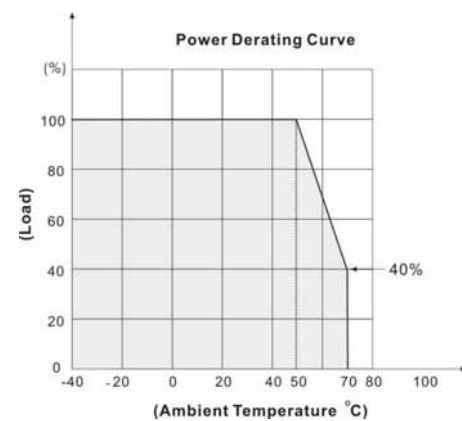
PIN#	SINGLE	Dual	5S/12S 5S/24S	Triple
1	AC IN (L)	AC IN (L)	AC IN (L)	AC IN (L)
2	AC IN (N)	AC IN (N)	AC IN (N)	AC IN (N)
3	+DC OUT	+DC OUT	+OUT2	+DC OUT
4	NO PIN	NO PIN	+OUT1	+5V
5	-DC OUT	COMMON	+OUT2 RTN	COMMON
6	NO PIN	NO PIN	+OUT1 RTN	+5 RTN
7	NOCONNECT	-DC OUT	NO PIN	-DC OUT

BLOCK DIAGRAM

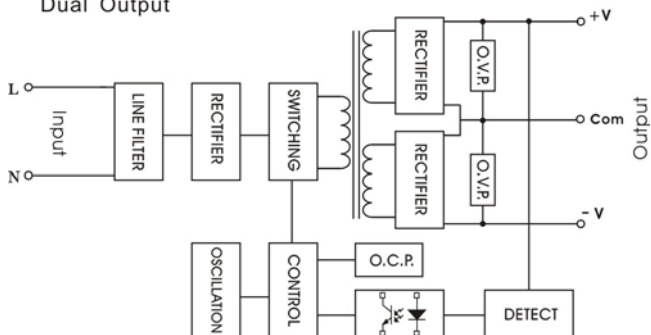
Single Output



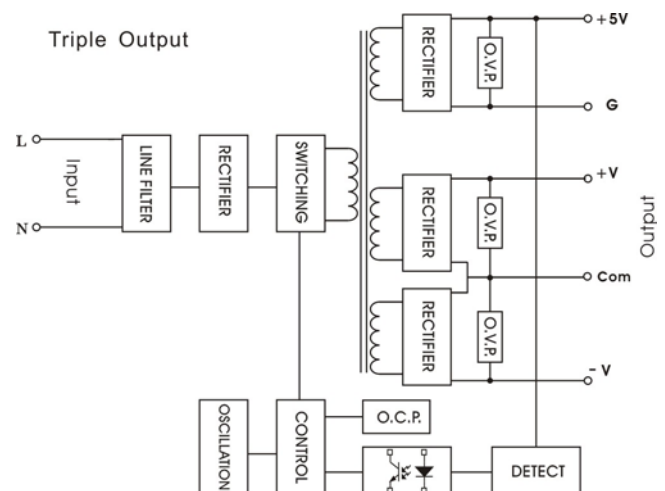
DERATING



Dual Output

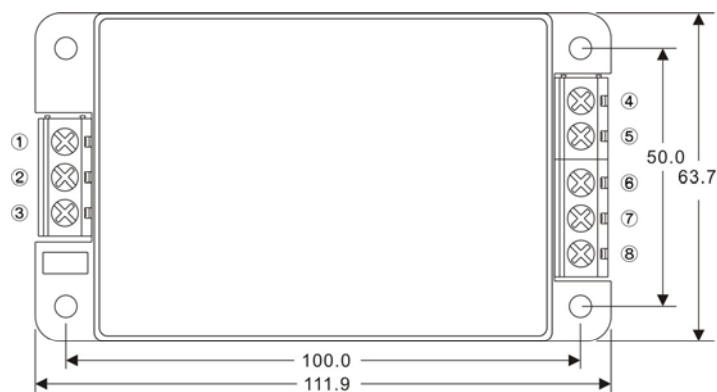


Triple Output

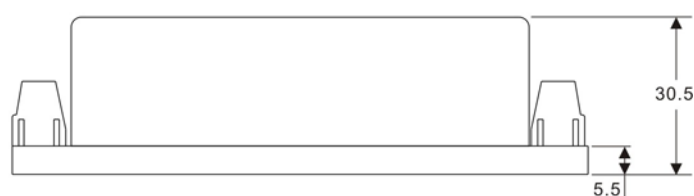


SCREW TERMINAL

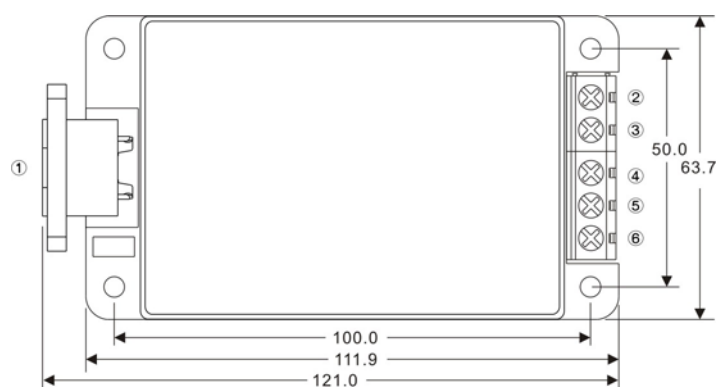
AJC-A2



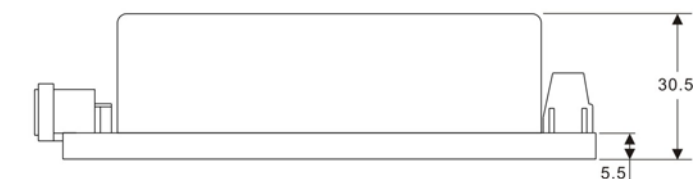
PIN#	Single	Dual	5S/12S 5S/24S	Triple
1	NOCONNECT	NOCONNECT	NOCONNECT	NOCONNECT
2	AC IN (L)	AC IN (L)	AC IN (L)	AC IN (L)
3	AC IN (N)	AC IN (N)	AC IN (N)	AC IN (N)
4	+DC OUT	+DC OUT	+OUT2	+DC OUT
5	NOCONNECT	NOCONNECT	+OUT1	+5V OUT
6	-DC OUT	COMMON	+OUT2 RTN	COMMON
7	NOCONNECT	NOCONNECT	+OUT1 RTN	+5V RTN
8	NOCONNECT	-DC OUT	NOCONNECT	-DC OUT

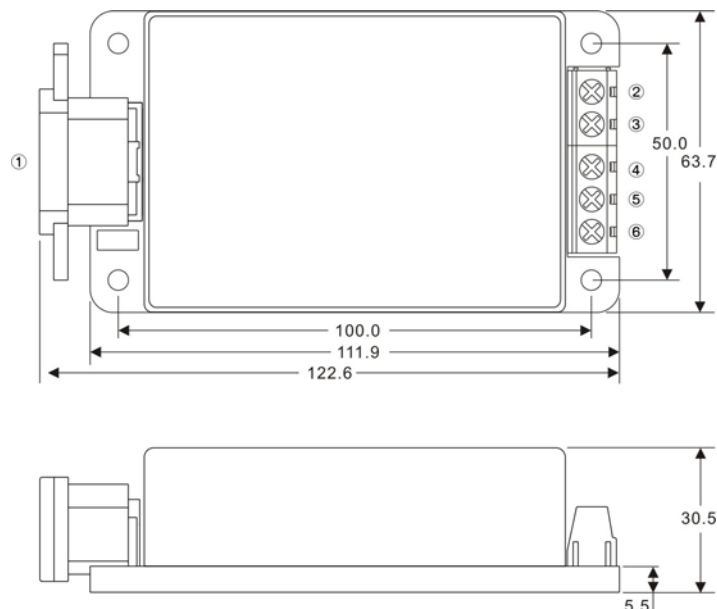


AJC-A3

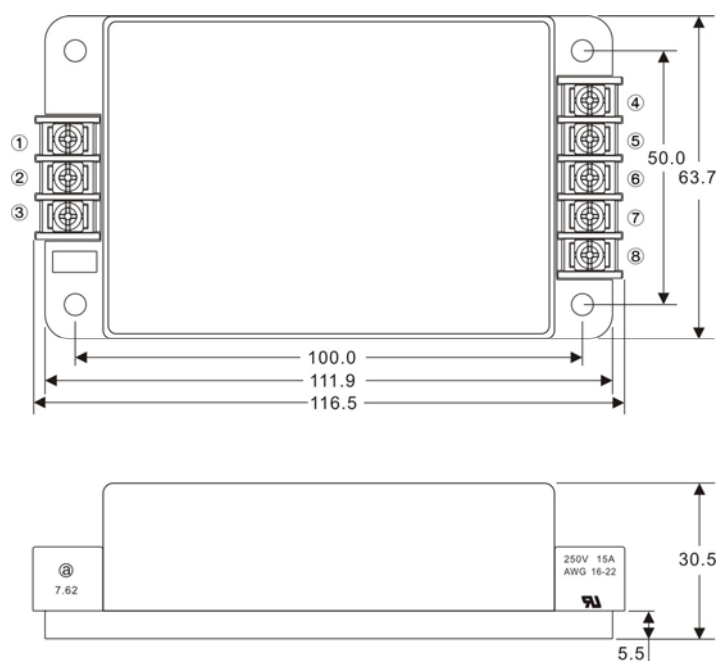


PIN#	Single	Dual	5S/12S 5S/24S	Triple
1	AC IN	AC IN	AC IN	AC IN
2	+DC OUT	+DC OUT	+OUT2	+DC OUT
3	NOCONNECT	NOCONNECT	+OUT1	+5V OUT
4	-DC OUT	COMMON	+OUT2 RTN	COMMON
5	NOCONNECT	NOCONNECT	+OUT1 RTN	+5V RTN
6	NOCONNECT	-DC OUT	NOCONNECT	-DC OUT

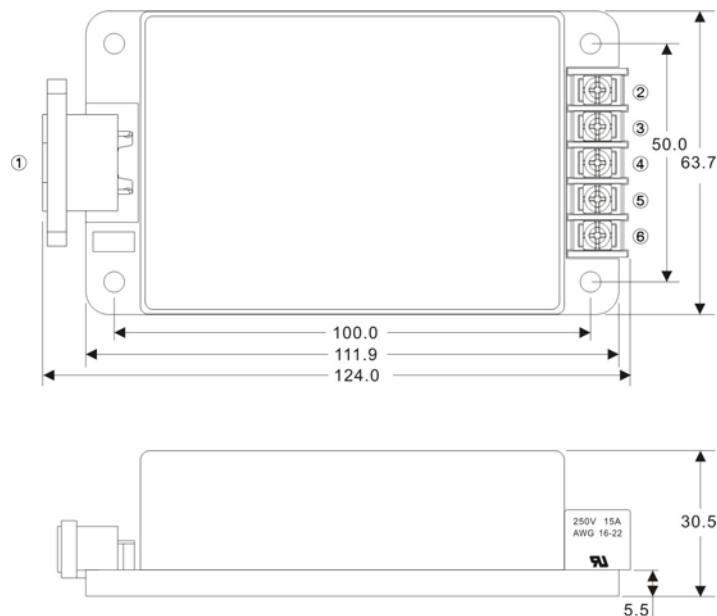


AJC SERIES
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AJC-A4


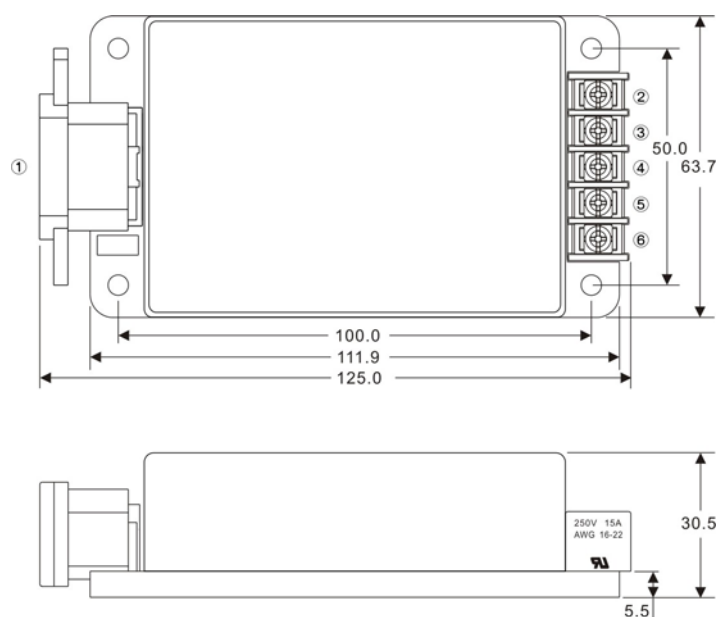
PIN#	Single	Dual	5S/12S 5S/24S	Triple
1	AC IN	AC IN	AC IN	AC IN
2	+DC OUT	+DC OUT	+OUT2	+DC OUT
3	NOCONNECT	NOCONNECT	+OUT1	+5V OUT
4	-DC OUT	COMMON	+OUT2 RTN	COMMON
5	NOCONNECT	NOCONNECT	+OUT1 RTN	+5V RTN
6	NOCONNECT	-DC OUT	NOCONNECT	-DC OUT

AJC-A5


PIN#	Single	Dual	5S/12S 5S/24S	Triple
1	NOCONNECT	NOCONNECT	NOCONNECT	NOCONNECT
2	AC IN (L)	AC IN (L)	AC IN (L)	AC IN (L)
3	AC IN (N)	AC IN (N)	AC IN (N)	AC IN (N)
4	+DC OUT	+DC OUT	+OUT2	+DC OUT
5	NOCONNECT	NOCONNECT	+OUT1	+5V OUT
6	-DC OUT	COMMON	+OUT2 RTN	COMMON
7	NOCONNECT	NOCONNECT	+OUT1 RTN	+5V RTN
8	NOCONNECT	-DC OUT	NOCONNECT	-DC OUT

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AJC-A6


PIN#	Single	Dual	5S/12S 5S/24S	Triple
1	AC IN	AC IN	AC IN	AC IN
2	+DC OUT	+DC OUT	+OUT2	+DC OUT
3	NOCONNECT	NOCONNECT	+OUT1	+5V OUT
4	-DC OUT	COMMON	+OUT2 RTN	COMMON
5	NOCONNECT	NOCONNECT	+OUT1 RTN	+5V RTN
6	NOCONNECT	-DC OUT	NOCONNECT	-DC OUT

AJC-A7


PIN#	Single	Dual	5S/12S 5S/24S	Triple
1	AC IN	AC IN	AC IN	AC IN
2	+DC OUT	+DC OUT	+OUT2	+DC OUT
3	NOCONNECT	NOCONNECT	+OUT1	+5V OUT
4	-DC OUT	COMMON	+OUT2 RTN	COMMON
5	NOCONNECT	NOCONNECT	+OUT1 RTN	+5V RTN
6	NOCONNECT	-DC OUT	NOCONNECT	-DC OUT