

AOJS240



240W AC/DC

Features

- User selectable input voltage
- Over voltage protection
- Overcurrent protection
- Inrush Current Limit
- 4 Yr warranty

	MODEL/CHANI	NEL	Unit	AOJS240-3.3	AOJS240-5	AOJS240-9	AOJS240-12	AOJS240-15	AOJS240-24	AOJS240-48	
OUTPUT	Nominal Voltage		V	3.3	5	9	12	15	24	48	
	Current		A	48	48	26.7	20	16	10	5	
	Rated Power		W	158	240	240	240	240	240	240	
	Line Regulations		mV	20	20	48	60	60	96	192	
	Load Regulations		mV	40	40	96	120	120	192	384	
	Temperature Drift		mV	50	75	135	180	150	240	480	
	Ripple & Noise(pk-	pk) (*1)	mV	120	120	150	150	150	150	250	
	Turn-on Time typ.		ms	800 max (AC IN 100V, lo=100%) 1500(AC IN 100V, lo=100%)							
	Hold-up Time typ.		ms	14 (AC IN 110/220V, lo=100%) 15(AC IN 100V, lo=100%)							
INPUT	Voltage Currency	V	AC100-120/200-240(AC88-132/176~264), 50/60Hz(47-440Hz) or DC240-370(User selectable)								
	Current Typical	110V 220V	Α	5.5 (lo=100%) 2 (lo=100%)							
	Efficicncy Typ.	110V 220V	%	73	78	83	83	83	86	86	
	Inrush Current Typical	110V 220V	A	40 (Ta=25°C Cold Start)							
Function	Over Voltage Protection		V	Works at 115~140% of rating, recover automatically							
	Over Current Protection (*2)		Α		Works @11	10% of rating,	Protection type	: recover autom	natically		
	Remote Sensing		-				Available				
	Remote ON.OFF		-				Available				
	Cooling/O.T.P		-	Convection cooling							
	Input - Output		-	AC 3KV 1min., cut-off: 20mA / DC 500V 100 MΩ							
Isolation	Input - F.G		-	AC 2KV 1min., cut-off: 20mA / DC 500V 100 MΩ							
	Output - F.G		-	AC 0.5 KV 1min., cut-off: 100mA / DC 500V 100 MΩ							
Environment	Operating temp. & Hum.		-	-25~70°C with derating 20~90% RH (non-condensing)							
	Storage temp. & Humidity		-	-40~85°C, 20~90% RH (non-condensing)							
	Vibration		-	10~55Hz @ 1G 3 minutes PERIOD, 30 minutes along X,Y & Z axis							
Dimension	Size(LxWxH)/Weight		mm/g	/g 201Lx98Wx38H/700							
	Safety		-	Approved							
	Emission		-	Compiles with EN55022-B, FCC-B, EN55011							

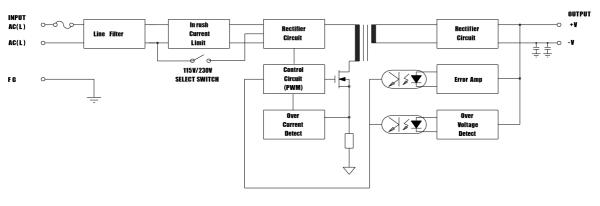


Toll-free (US only): 800-ETA-POWR (800-382-7697) Telephone: 408 778-2793 FAX: 408-779-2753



240W Power Supply

1. BLOCK DIAGRAM



Mark Pin	Connection Function	FUNCTION			
L	AC Live line	SMPS AC input Terminal (Fuse in Line)			
N	AC Neutral line	SMPS AC input Terminal			
F.G	Frame ground	SMPS AC Grounding			
+V	DC Output (+)	DC Output (+) Terminal			
-V	DC Output (-)	DC Output (-) Terminal			

3-1. Adjustable output voltage range

3-1. Adjustable output voltage range

o Output voltage can be adjustable within ±10% but it could cause malfunction if it is out of

Adjustable range

3-2. O.C.P : Over Current Protection

Over current protection circuit is to be in operation to cut off the output in order to protect SMPS if output current exceeds over 110% of rated output current due to malfunction of application system or short-circuit of external connection.

3-3. O.V.P : Over Voltage Protection

o Over voltage protection circuit is to be in operation to cut off the output in order to protect SMPS if output voltage exceeds over 115% of rated output voltage or reversal voltage occurs.

o Over voltage protection feature is to be off, once the system is restored after the problem for malfunction is resolved, followed by cutting off AC input power for 3 minutes. If output voltage is NOT restored to normal, however, it is highly recommended to consult with personnel at customer support to monitor possible internal damage to the product.



Lange Content of the second se



240W Power Supply

4. Series operation / Parallel operation

4-1. Both connection systems as shown at Figure 1 or Figure 2 can be used during series operation.4-2. In parallel operation A at Figure 4, current capacity cannot be increased, while it should be used for backup only. Moreover, diode that is to be added during parallel operation should be selected after considering its voltage drop (Vf), output voltage (Vo) and current capacity (Io).

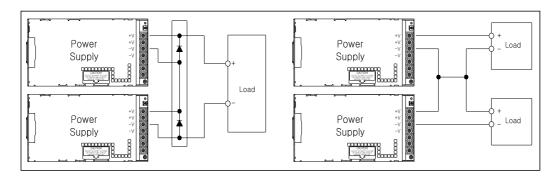


Fig 1. Series operation A

Fig 2. Series operation B

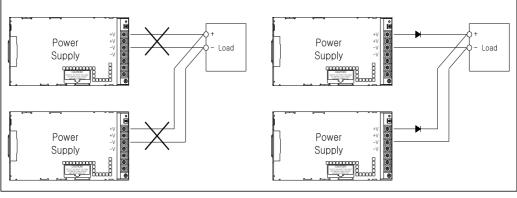


Fig 3. Parallel operation A (X)



5. Mounting method

5-1. It should be mounted as follow in the consideration of air cooling

o Mounting method should be considered with airflow

o Leave enough spaces between units when several units mounted togather

o Forced air cooling makes protection against heat better



Lange Content of the second se

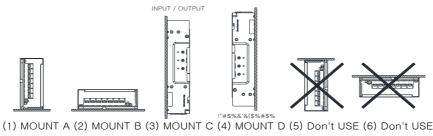


240W Power Supply

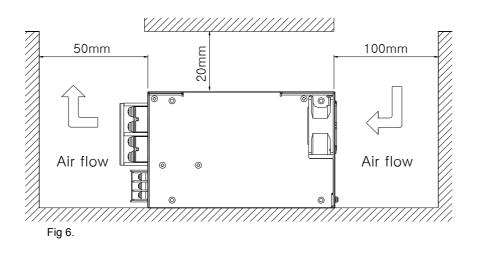
5. Mounting method

- 5-1. It should be mounted as follow in the consideration of air cooling
- o Mounting method should be considered with airflow
- o Leave enough spaces between units when several units mounted togather
- o Forced air cooling makes protection against heat better
- o Life span of The air cooling fan for AOJS240 is approximately 50,000 Hrs at 25°C

(Notice) the expected life span would be shorter when ambitent temperature is over 25 $\ensuremath{^{\circ}\text{C}}$



<Fig 5. Installation method>



ETA-USA 16170 Vin

Lange Content of the second se



240W Power Supply

5. Mounting method

- 5-1. It should be mounted as follow in the consideration of air cooling
- o Mounting method should be considered with airflow
- o Leave enough spaces between units when several units mounted togather
- o Forced air cooling makes protection against heat better
- o Life span of The air cooling fan for AOJS240 is approximately 50,000 Hrs at 25°C

o Please refer to below Graph when Output derating curve is applied at AC95V input voltage.

