



ETA-USA

AOLL1-240

240W Exterior LED Driver



FEATURES:

Universal AC input 90~264 VAC

Built in active PFC

IP66 or IP67 for damp locations designed for outdoor use

Wide Temp -40 ~ +70°C range

Adjustable output voltage and current

UL 8750 safety (Pending)

Warranty: 4 years

Output voltage and constant current level can be adjusted through potential meter.

Constant current level adjustable through output cable with 1~10Vdc.

CE Pending

	MODEL/CHANNEL	Unit	AOLL1-240-12 AD	AOLL1-240-24 AD	AOLL1-240-36 AD	AOLL1-240-48 AD
OUTPUT	Norminal Voltage	[V]	12	24	36	48
	Setting Voltage Range	[V]	11.8 ~ 12.1	23.7 ~ 24.3	35.6 ~ 36.4	47.5 ~ 48.5
	Voltage ADJ. Range *note1	[V]	10.8 ~ 13.5	22.0 ~ 27.0	33.0 ~ 40.0	43.0 ~ 53.0
	Norminal Current	[A]	16.0	10.0	6.7	5.0
	Current ADJ. Range *note1	[A]	8.0 ~ 16	5.0 ~ 10	3.35 ~ 6.7	2.5 ~ 5
	Line Regulation	[mV]	120	120	180	240
	Load Regulation	[mV]	120	120	180	240
	Temperature Drift	[mV]	180	360	540	720
	Ripple Max.	[mV]	120	120	150	150
	Ripple & Noise Max 1.	[mV]	150	150	250	250
	Ripple & Noise Max 2. *note2	[mV]	600	600	800	800
	Turn-on Time Typ.	[ms]	1000 (AC IN 100V, Io=100%)			
Hold-up Time Typ.	[ms]	17 (AC IN 100V, Io=100%)				
INPUT	Typ. Voltage, Frequency	[V]	AC100 - 240(AC 90-264, 50/60Hz(47 - 63) or DC127-370V (Universal Input)			
	Current Typ. 110V	[A]	4.0	4.0	4.0	4.0
	220V		2.5	2.5	2.5	2.5
	Efficiency Typ. 110V	[%]	87	88	89	90
	220V		90	92	93	93.5
	Power factor Typ. 110V	-	0.99	0.99	0.99	0.99
	220V		0.98	0.98	0.98	0.98
Inrush Current Typ. 110V	[A]	25 (Ta=25°C , Cold Start)				
220V		45 (Ta=25°C , Cold Start)				
Leakage Current Max. 110V	[mA]	3.5				
220V		3.5				
Function	Over Voltage Protection	-	110% ~ 160% of rating			
	Over Current Protection[Blank,D]	-	95 ~ 110 %	95 ~ 110 %	95 ~ 110 %	95 ~ 110 %
	Over Current Protection[A,AD]	-	50 ~ 100 %	50 ~ 100 %	50 ~ 100 %	50 ~ 100 %
	Short Circuit	-	Constant current limiting, recovers automatically after fault condition is removed			
	Cooling / O.T.P	-	Convection/Optional			
Electrical Isolation	(1) Input - Output	-	AC 3.0KV 1min, cut-off: 20mA / DC 500V 100MΩ			
	(2) Input - F.G	-	AC 2.0KV 1min, cut-off: 20mA / DC 500V 100MΩ			
	(3) Output - F.G	-	AC 0.5KV 1min, cut-off:100mA / DC 500V 100MΩ			
Environment	Operating temp. & Humidity	-	-40 ~ +70°C(Required Derating), 20 ~ 90%RH (Non Condensing)			
	Storage temp. & Humidity	-	-40 ~ +75°C, 20 ~ 90% RH (Non Condensing)			
	Vibration	-	10~55Hz at 1G 3minutes period, 30minutes along X,Y and Z axis			
Dimension	Size(WxHxD) / Weight	mm/g	68 x39 x 222	/	1280	
Safety	-	-	CE Built to meet UL8750			
Emission	Conducted Emission	-	Built to meet EN55015			

*note1 : Type A,AD only

*note2 : Frequency 50/60Hz



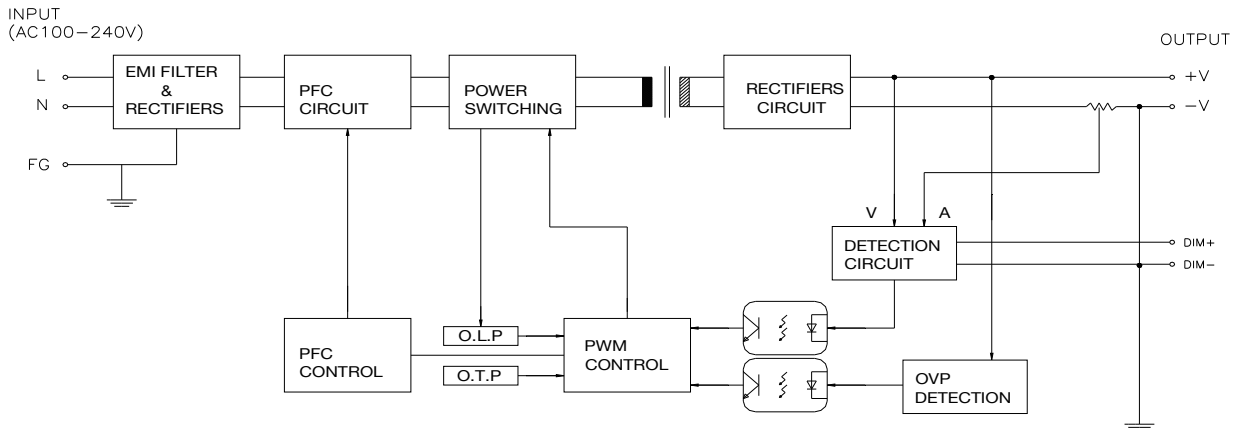
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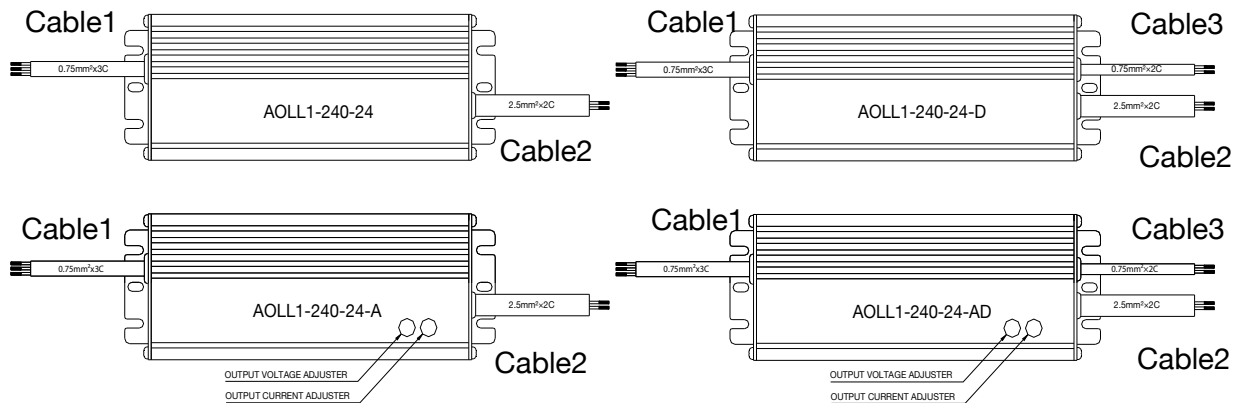
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1. BLOCK DIAGRAM



2. Terminal Connection



	Cable Type	Wire Color	Terminal
Cable1	60227 0.75mm ² X 3C	BROWN	AC (L)
		SKY BLUE	AC (N)
		YELLOW/GREEN	FG
Cable2	60227 2.5mm ² X 2C	BROWN	Output +
		SKY BLUE	Output -
Cable3	60227 0.75mm ² X 2C	BROWN	Dimming +
		SKY BLUE	Dimming -

* Size and Type for cable subject to change

* Cable3 applies to D and AD type only



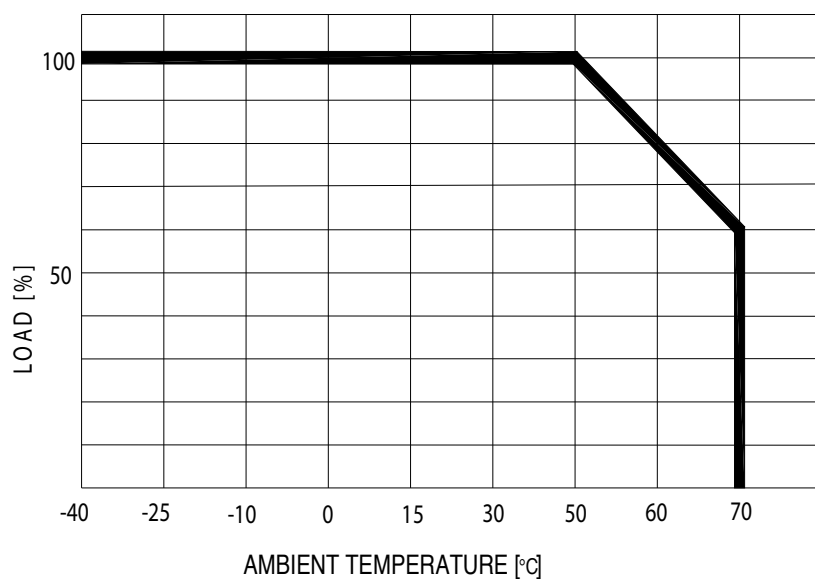
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Ambient Temperature Derating Curve

Output derating curve as follow when input voltage range is AC100~264V.



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