

AOLL1-100

100W 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 cRU Pending RoHS

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]	6.4	4	2.65	2
	Current ADJ. Range *note1	[A]	4.16 ~ 6.4	2.6 ~ 4	1.72 ~ 2.65	1.3 ~ 2
	Line Regulations	[mV]	120	120	180	240
	Load Regulations	[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]	400	400	600	600
	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]	3.0	3.0	3.0	3.0
	220V		1.5	1.5	1.5	1.5
	Efficiency Typ. 110V	[%]	87	88	89	90
	220V		90	92	92.5	93
	Power factor Typ. 110V	-	0.99	0.99	0.99	0.99
	220V		0.98	0.98	0.98	0.98
Function	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			
	Over Voltage Protection	[V]	110% ~ 160% of rating			
Electrical Isolation	Over Current Protection[Blank,D]	[A]	95 ~ 110 %	95 ~ 110 %	95 ~ 110 %	95 ~ 110 %
	Over Current Protection[A,AD]	[A]	60 ~ 100 %	60 ~ 100 %	60 ~ 100 %	60 ~ 100 %
	Short Circuit	-	Hiccup mode, recovers automatically after fault condition is removed			
	Cooling / O.T.P	-	Convection/Optional			
Environment	(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			
Dimension	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			
Safety	Size(WxHxD) / Weight	mm/g	68 x 39 x 189 / 824			
	Emission	-	CE Built to meet UL8750			
	Conducted Emission	-	Built to meet EN55015			

*note1 : Type A,AD only

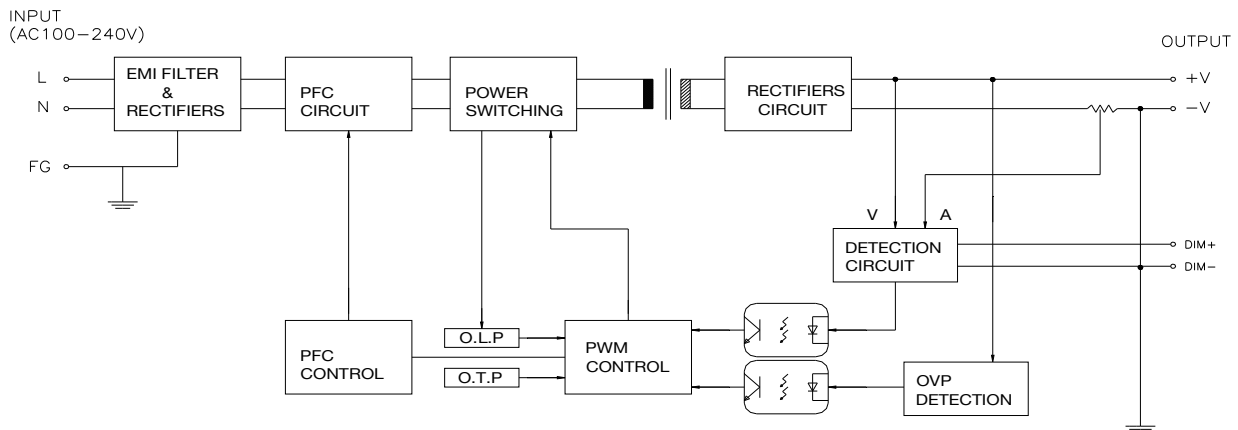
*note2 : Frequency 50/60Hz



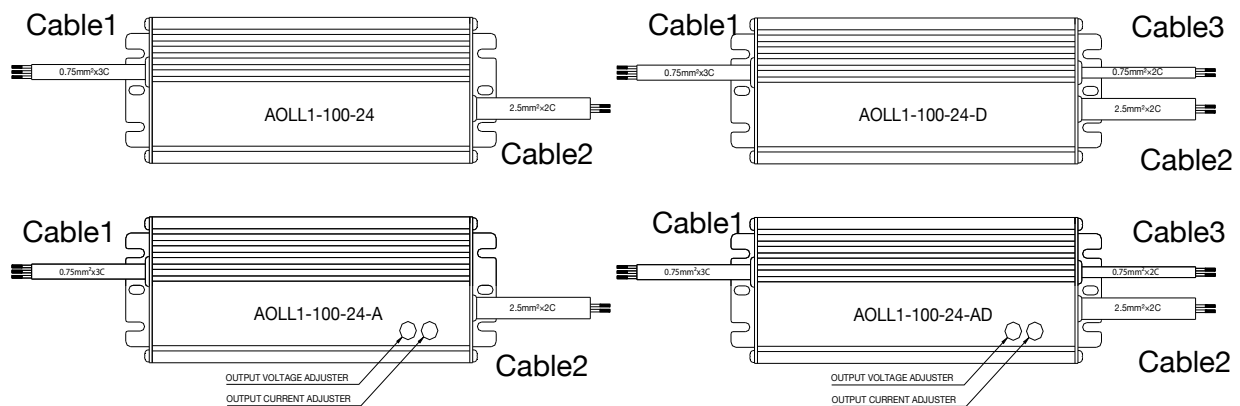
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1. BLOCK DIAGRAM



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 -

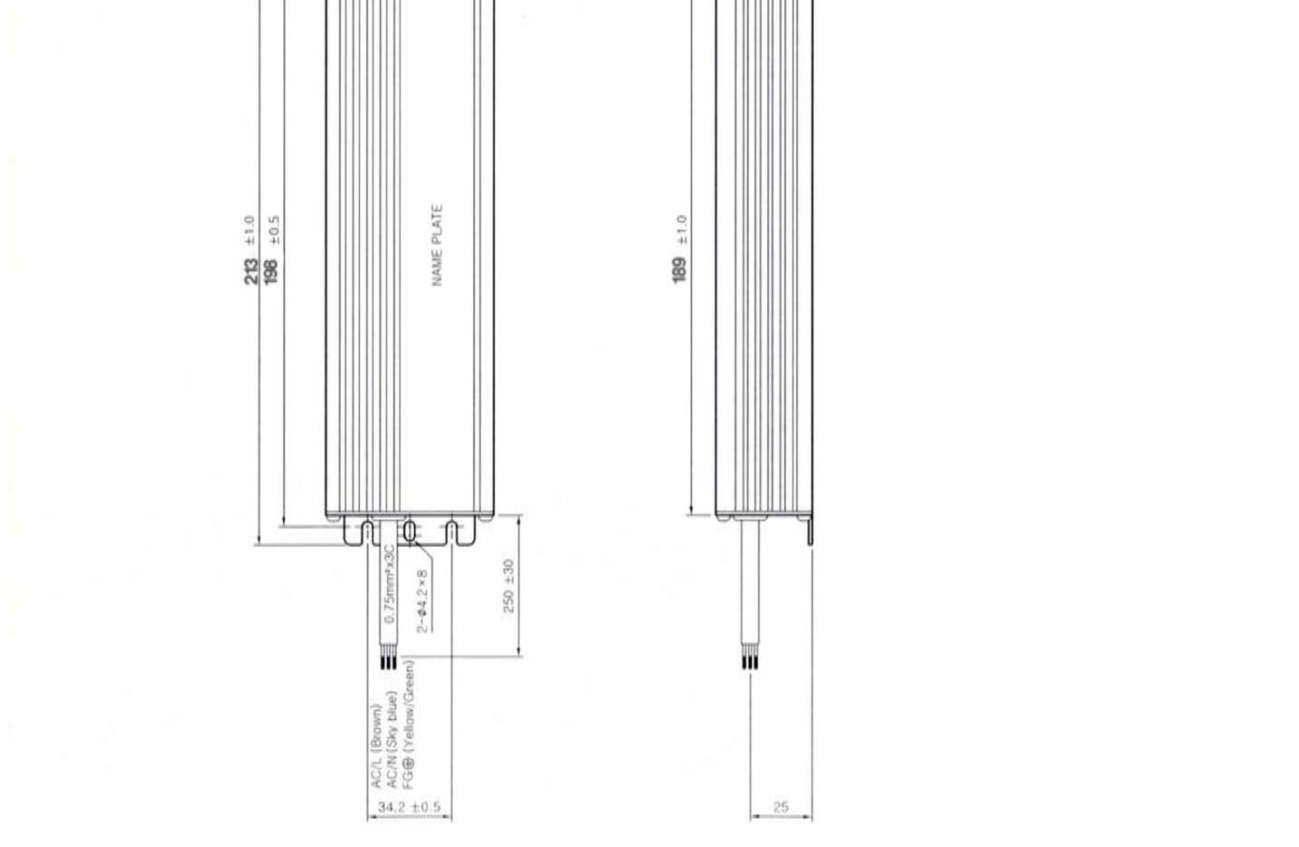
* Size and Type for cable subject to change

* Cable3 applies to D and AD type only





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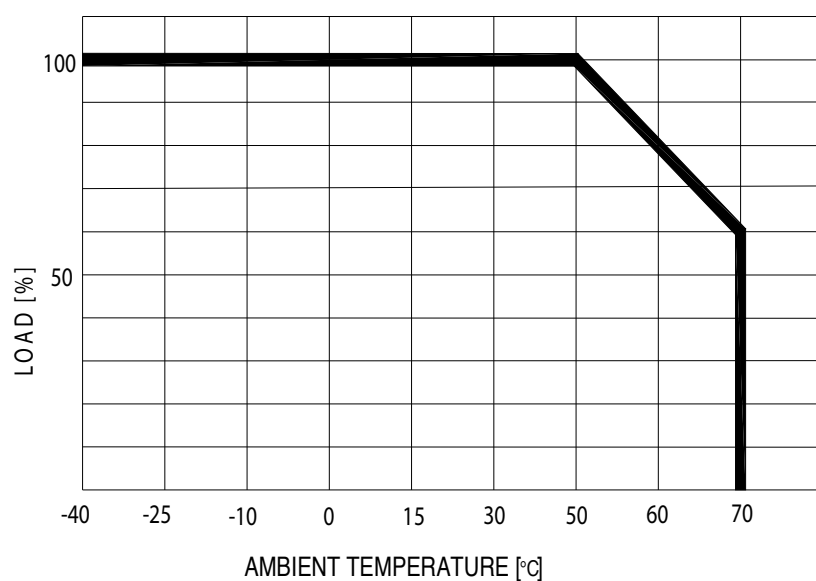
The Power Professionals

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Ambient Temperature Derating Curve

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



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