

JALS-C-096W DIMMING SERIES

<p>Features</p> <ul style="list-style-type: none">s Constant current designs Universal AC input (90-305Vac)s 3 in 1 dimming(0-10V,PWM,Rx resistance)s Protections: SCP, OVP, OTP, OPPs High Efficiency (Up to 92%)s Active Power Factor Correction (0.99 Typical)s Lightning Protections Waterproof (IP67)s Comply With UL8750 & EN61347 Safety Regulationss 5 years warranty <p>■Application</p> <ul style="list-style-type: none">s Suitable for LED street lights,tunnel lights,landscape lights.

General Description

The document detail the electrical, mechanical and environmental specifications for JALS-C-096M series LED driver, these driver are single channel output and can provide 96W max. continuous output power.

Models & Key parameters

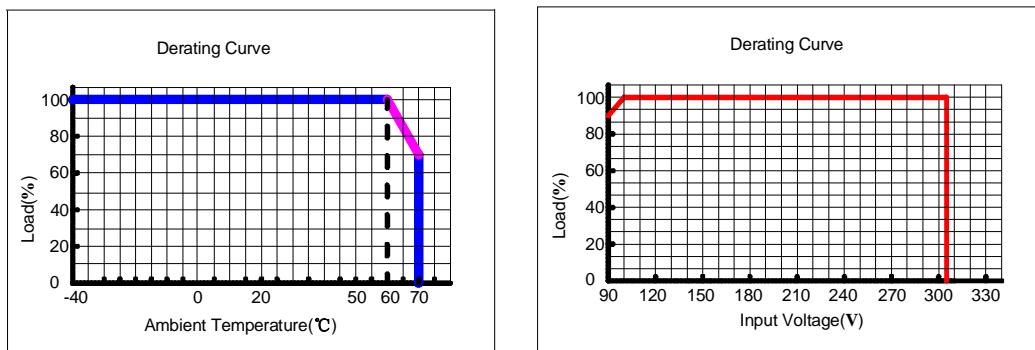
Model	Output Power (W)	Rated Output Voltage(Vdc)	Output Current (A)	Typ. Efficiency ≈1	Power Factor	
					110Vac	230Vac
JALS-C-096M012	72	12	6.00	87.0%	>0.99	>0.95
JALS-C-096M015	96	15	5.00	88.0%	>0.99	>0.95
JALS-C-096M020	96	20	4.80	90.0%	>0.99	>0.95
JALS-C-096M024	96	24	4.00	91.0%	>0.99	>0.95
JALS-C-096M030	96	30	3.20	91.0%	>0.99	>0.95
JALS-C-096M036	96	36★	2.65	92.0%	>0.99	>0.95
JALS-C-096M042	96	42★	2.30	92.0%	>0.99	>0.95
JALS-C-096M048	96	48★	2.00	92.0%	>0.99	>0.95
JALS-C-096M054	96	54	1.77	92.0%	>0.99	>0.95
NOTE	※1: Typ. Efficiency are measured at full load and 230 Vac input. ※2: ★ means the popular models, we will keep sufficient stock for prompt delivery.					

Specification

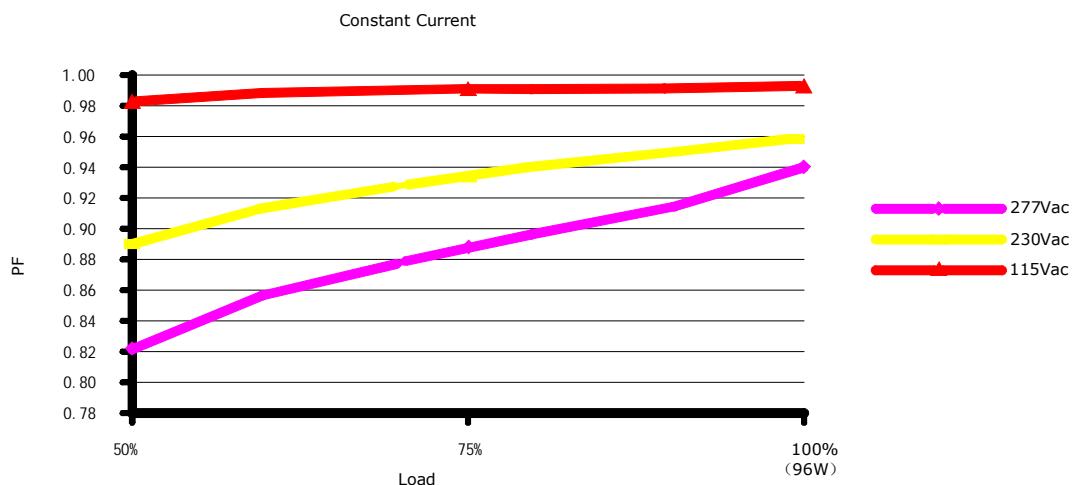
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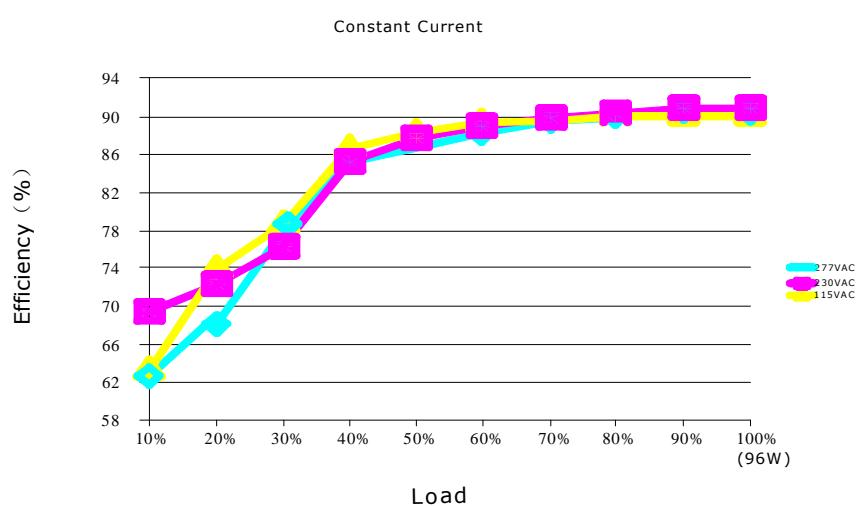
Derating Curve



Power Factor Characteristic

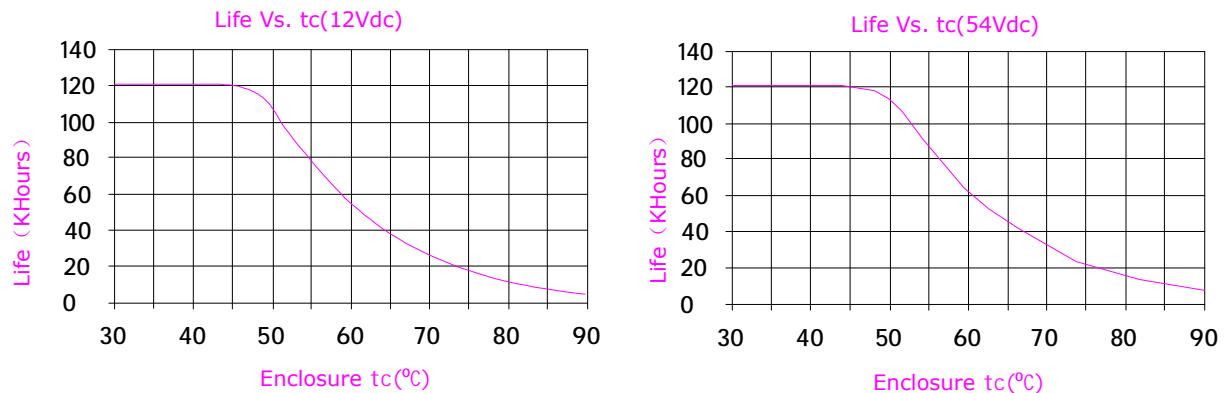


Efficiency curve(Typ.Voltage 36V)

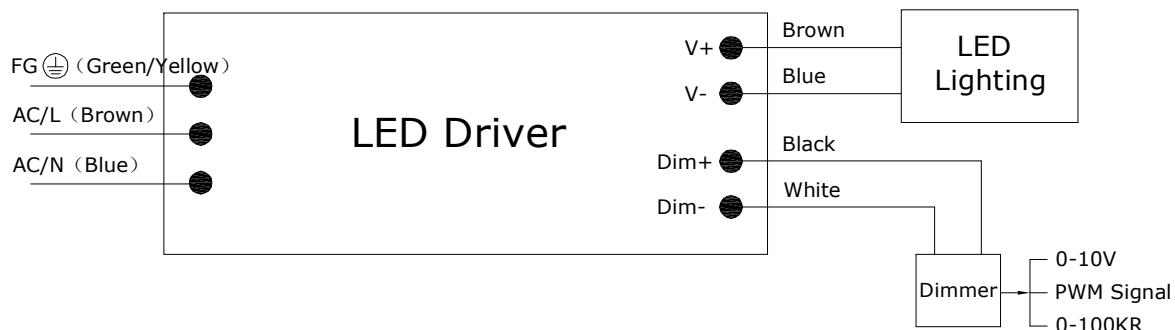


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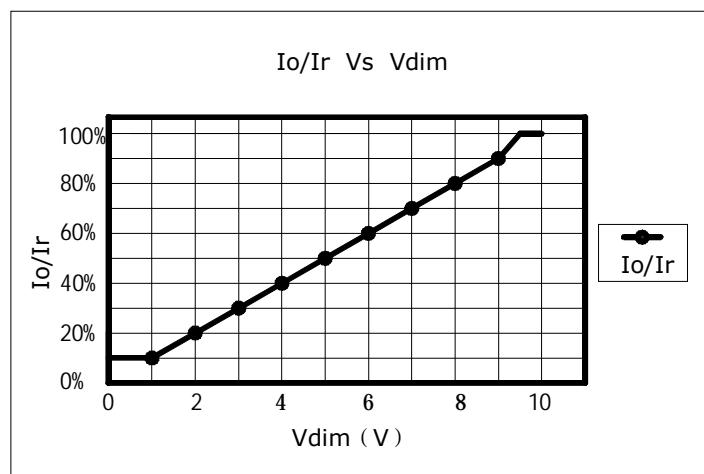
n Life vs tc curve



n Dimming Control



A) 0-10V Dimming Voltage/Current Proportion Curve



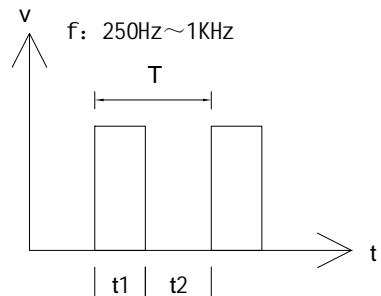
NoTE: Io is actual output current and Ir is rated currnet without dimming control.

0-10V signal level	1	2	3	4	5	6	7	8	9	10
Io (A)	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%

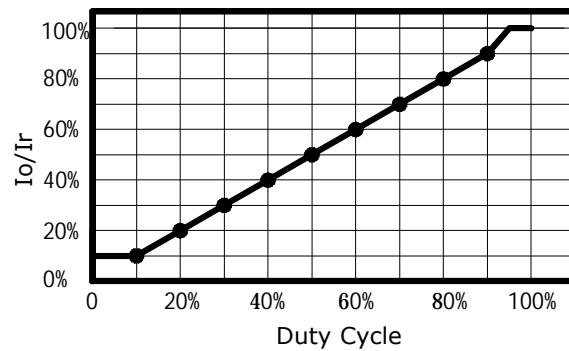
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B) PWM Dimming Voltage/Current Proportion Curve

PWM Dimming Control



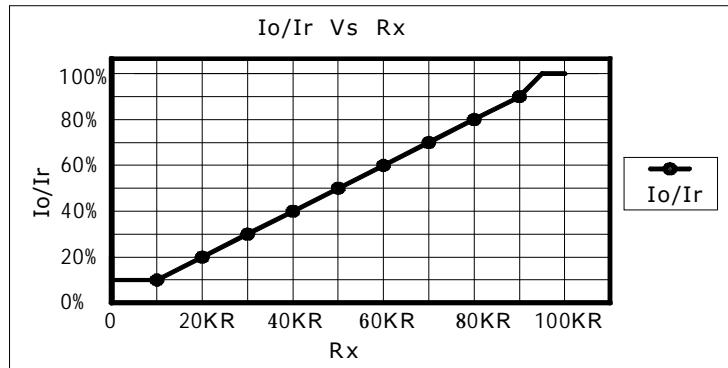
Io/Ir Vs Duty Cycle



Dimming Port Condition:

Type	Condition
PWM Dimming	Frequency, f: 250Hz~1KHz
	High-Level, Ho: 5-10V, 5-10V can be respondeded, means "ON"
	Low-Level, Lo: 0V, 0~2.5V can be response, means "OFF"
	Sink current, Io : <5 mA
	Signal Open, Po: 100% Brightness
	Dimming range, Pr: 10%~100%

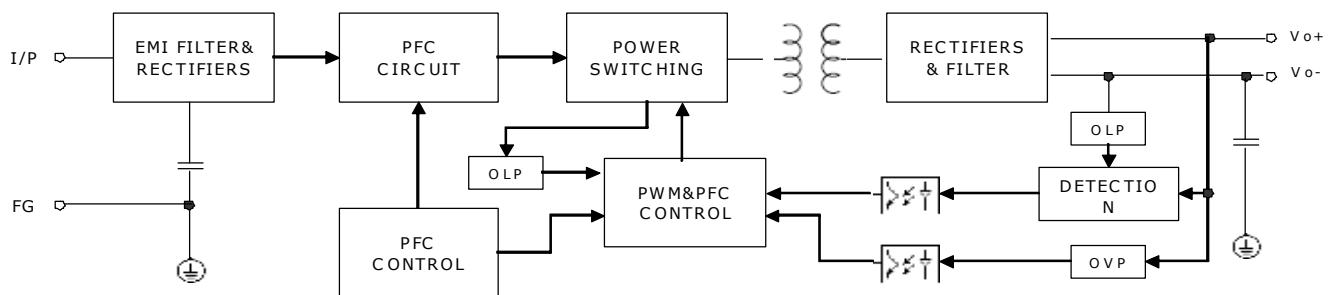
C) Resistance Dimming /Current Proportion Curve



NOTE: Please DO NOT connect "V-" to "Dim-", otherwise the LED drive can not work normally.

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Block Diagram



Mechanical Specification

