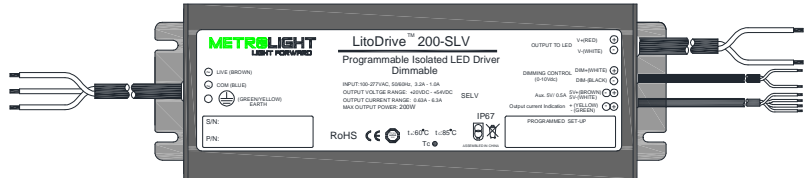


# Metrolight LitoDrive™ 200MJV Programmable LED Driver

## 200W Single Output With Aux. Voltage



### Overview

Metrolight LED driver technology offers highly efficient, proven solution that drives and controls LEDs at a competitive price.

The driver offers complete adaptability to the LED design and user's needs.

The driver automatically applies the adequate current and voltage to the LEDs.

The LED driver incorporates unique control capabilities including: 0-10V/0-5V/PWM analog dimming, and on-board dimming profile.

The LED driver incorporates unique control capabilities including: OFF command by applying low voltage to the analog dimming port.

The LED driver incorporates a current output level indicator for accurate reading of the actual current applied to the LED's.

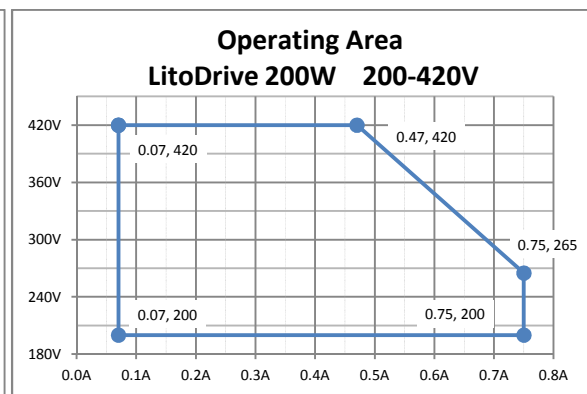
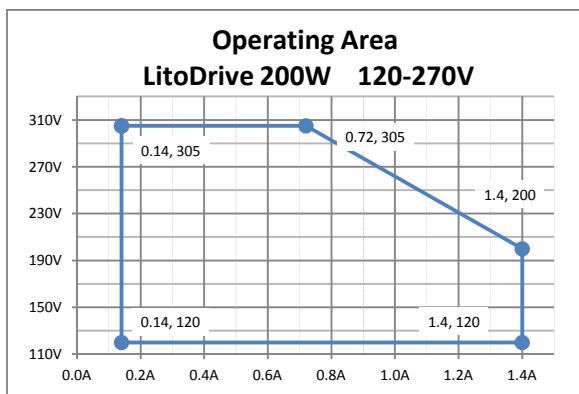
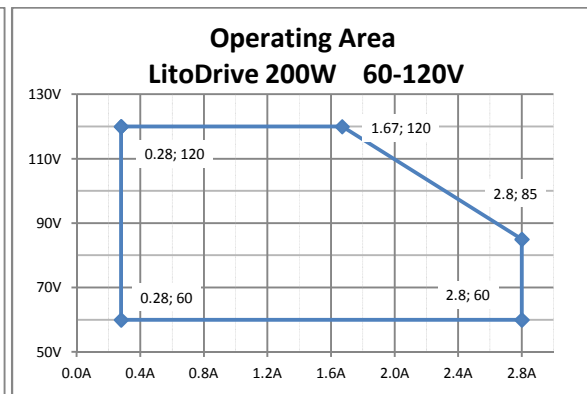
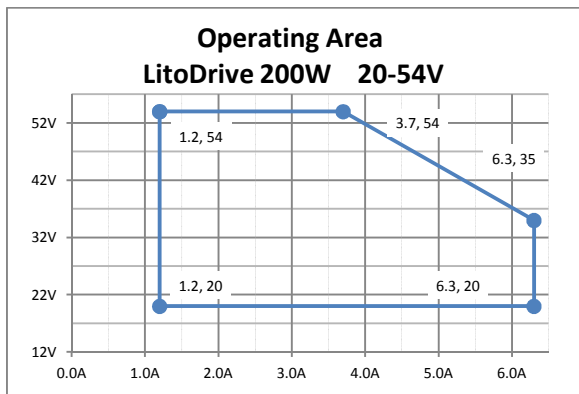
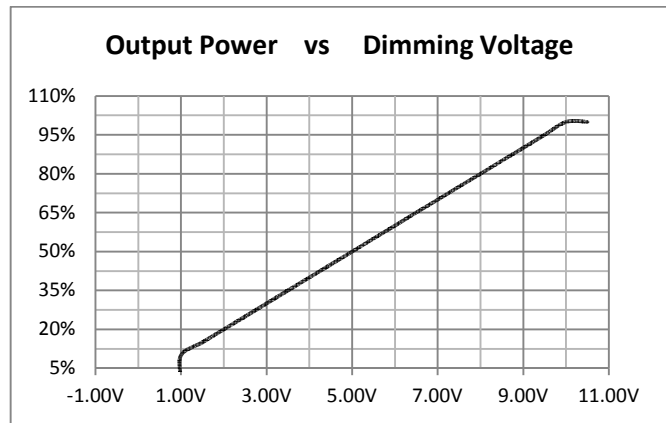
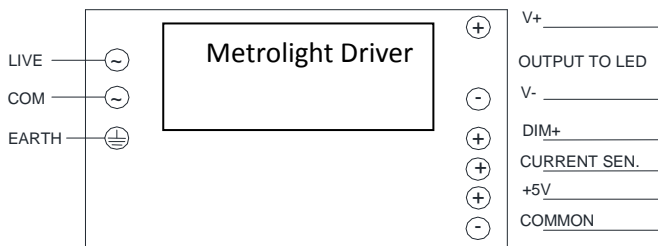
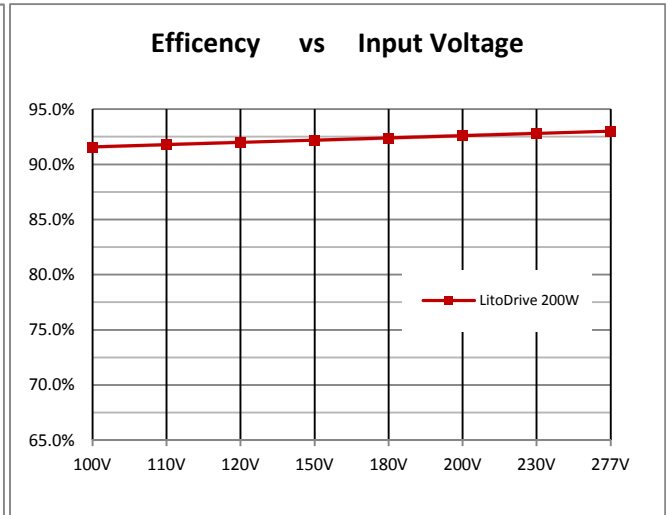
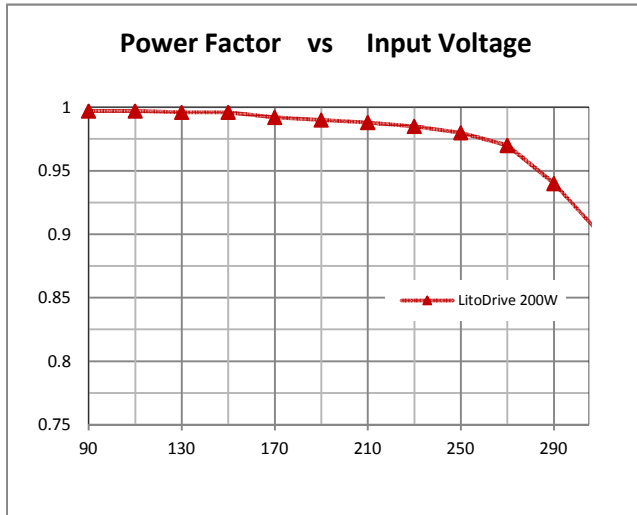
### Benefits

- Universal AC input Full range (95Vac up to 305Vac)
- Isolated Driver suitable for Class II applications.
- Aux. 5V/ 0.5A to support additional electronics.
- OFF when dimming voltage below 1V.
- Linear output current indication
- Self-adapting Output Voltage, with large range of output voltages to match different LED loads
- High power factor, Low harmonic current
- High Efficiency (up to 93%)
- Protections: Short circuit, Over Current, Over Voltage, Over Temperature
- 4 in 1 dimming function control (0-10Vdc / 0-5Vdc, PWM signal, resistance)
- IP67 design for indoor or outdoor installations
- Suitable for LED lighting and street lighting applications
- 5 years warranty
- Low Cost
- CB approved
- RoHS

LitoDrive -200MJV-SLV-XXXX-YY	200 is the maximum output power; XXXX defines the initial output current (e.g.0630 =0.63A, 6300 =6.3A), YY defines the country (EU= Europe, US= USA).
LitoDrive -200MJV-LV-XXXX-YY	200 is the maximum output power; XXXX defines the initial output current (e.g.0280 =0.28A, 2800 =2.8A), YY defines the country (EU= Europe, US= USA).
LitoDrive -200MJV-MV-XXXX-YY	200 is the maximum output power; XXXX defines the initial output current (e.g.0140 =0.14A, 1400 =1.4A), YY defines the country (EU= Europe, US= USA).
LitoDrive -200MJV-HV-XXXX-YY	200 is the maximum output power; XXXX defines the initial output current (e.g.0070 =0.07A, 0750 =0.75A), YY defines the country (EU= Europe, US= USA).

## Operating Specifications

Model		LitoDrive™ 200MJV-SLV	LitoDrive™ 200MJV-LV	LitoDrive™ 200MJV-MV	LitoDrive™ 200MJV-HV
OUTPUT	Output Current Range	0.63-6.3A	0.28-2.8A	0.14-1.4A	0.07-0.75A
	Output Voltage	20~54Vdc	60~120Vdc	120~305Vdc	200~420Vdc
	Rated Power	200W	200W	200W	200W
	Ripple Current (max.)	200mA	280mA	150mA	100mA
	Output current regulation	±3%	±3%	±3%	±3%
	Turn-on Rise time	300mSmax.@ Full load			
	Aux. Power source	5V @ 500mA, ±2%, Full overload or short protection.			
	Output current Indication	150mV to 2V with linear proportional to the output current applied to the load.			
INPUT	Voltage range	90V~305VAC	90V~305VAC	90V~305VAC	90V~305VAC
	Frequency Range	47Hz~63Hz	47Hz~63Hz	47Hz~63Hz	47Hz~63Hz
	Power Factor(Typ.)	PF>0.99 at 115VAC	PF>0.99 at 115VAC	PF>0.99 at 115VAC	PF>0.99 at 115VAC
	Efficiency (Typ.)	91%	92%	93%	93%
	AC Current	2.8A@100Vac , 0.8A@277Vac & Full Load			
	Inrush Current	50A max @ 230Vac input	50A max @ 230Vac input	50A max @ 230Vac input	50A max @ 230Vac input
PROTECTION	Over Voltage	<60Vdc	<132Vdc	<300Vdc	<450Vdc
	Short Circuit	When output voltage is over the limitation, the product will shut down. Recovery when the fault condition is removed.			
	Over Temperature	The input power decrease when the output rail is shorted. No damage to the Driver. Recovery when the fault condition is removed. When Tc > 90°C, the output current may decreases to protect the LED driver. When temperature case reduced to below 85°C, the current returned to the full set-up value. The minimum output current will be limited to 30% (typ.) of the rated output current in OTP function. The LED driver could survive in 125°C, for 2hrs.			
ENVIRONMENT	Operating Temp.	-40~60°C	-40~60°C	-40~60°C	-40~60°C
	Operating Humidity	95% RH	95% RH	95% RH	95% RH
	Storage Temp	-40~85°C	-40~85°C	-40~85°C	-40~85°C
	Water proof	IP67	IP67	IP67	IP67
	Vibration	The LED Driver can survive vibration towards three mutually perpendicular direction (X, Y, Z), each direction for 72 minutes. The vibration is in accordance with the sine wave with 2mm amplitude, and its frequency range from 10Hz to 500Hz with 5G acceleration			
RELIABILITY	MTBF	>200Khours @ 25°C			
	Lifetime	The life time shall be at least 10 years at 40°C (t yp. 12hours per day) at full load and nominal input condition.			
SAFETY & EMC	Safety Standards	UL8750, EN61347-1/A2:2013, EN61347-2-13: 2006, IEC61347-1, IEC61347-2-13, EN62493			
	Withstand Voltages	I/P-O/P: 3750VAC I/P-FG: 1650VAC O/P-FG: 500VAC			
	Isolation Resistance	50MΩ min. at primary to secondary with 500Vdc test voltage			
	EMC Emission	Compliance to EN55015 (CISPR15), EN61000-3-2; EN61000-3-3			
	EMC Immunity	Compliance to EN61547; EN55042, EN61000-4-2,3,4,5,6,8,11			
MECHANICAL	Dimensions	255*80*40mm, 10.04*3.14*1.57 Inch.			
	Weight	1250±50g			
	Color	BLACK	BLACK	BLACK	BLACK
	Packaging	10pcs/12.5Kg	10pcs/12.5Kg	10pcs/12.5Kg	10pcs/12.5Kg
DIMMING	Analog port	1V to 10V for normal dimming control from 10% to 100%. OFF command when voltage is 0V to 1V.			
NOTE	1. Ripple current measured at full bandwidth.				
	2. Since EMC performance depends on the installation, manufacturers must re-qualify EMC on the complete installation				



**Mechanical Dimensions**

