



MOSO[®]

X6 CREATIVE

LED Driver for **Road Lighting** (26W~320W)



MOSO Electronics Corp.

Introduction

MOSO X6 outdoor LED drivers with off-line programming and “Black-box” technologies are designed to give OEMs ultimate flexibility and convenience. With wide operating outputs and simple programming, the drivers make it easy for luminaire manufacturers to design luminaires of different powers and lumen outputs for professional outdoor lightings. For the output current and inventory aspects, it is the best-fit products. The innovative “Black Box” function has solved a big headache for customers regarding failure diagnose. It is manageable in software to meet different demand of warranty years.



CB CE



Class P



SAA BIS

Breakthrough and Innovation (suit for >75W product)

1、 Off-line Programming

User-friendly connection of programming without necessary to power on device.



2、 Black Box

This function can record and save the highest historical temperature data of the power supply. The data can be read even if the driver fails and can be used to make a preliminary diagnosis of the malfunction.

3、 One Interface for Programming & Dimming

The dimming wires could be used for programming and also exporting data in case of failure diagnose.

4、 Multiple Dimming

4.1 Analogue Dimming: 0-10V, 0-9V, 0-5V, 0-3.3V optional.

4.2 PWM: 5V, 10V optional.

4.3 Reversal Dimming optional

5、 Output Lumen Compensation (OLC)

Refer to LED light decay, the customers could define driver current increases over lifetime to maintain constant lumen output of the fixture.

6、 Constant Power Design

The driver covers wide range of operation windows, which brings more flexibility for customized setting. One single model can be programmed to fit in different fixture designs.

Product Features (Applicable for >75W product)

- Universal input voltage: (90~305)Vac;
- Constant power ;
- 3 in 1 dimming, dim-to-off, Isolation Design;
- Support reverse dimming;
- Overall protection: SCP, OVP, OTP;
- Surge protection: DM-5KV, CM-10KV;
- Compact design;
- Warranty: 5 years stand, 7-10year optional;
- IP67.

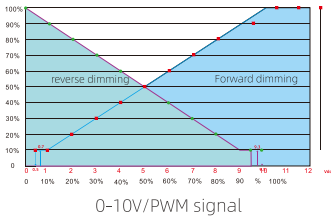
Software Functions ((Applicable for >75W product)



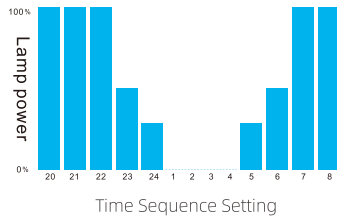
Visual Programming

- Set output current
- Read highest historical temperature
- Set timing dimming, up to 7 phases
- Set output lumen compensation
- Set dimming level and PWM signal

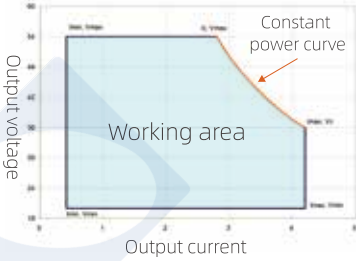
Multi-Dimming



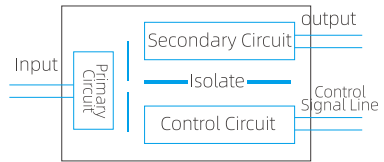
Timer Dimming



Constant Power Design



DC & Dimming Isolated



Power (W)	Model	Output voltage range (Vdc)	Full power voltage range (Vdc)	Full power current range(A)	Default current settings	Typ. Eff	Typ. PF
26	X6-026Y074	37-74	/	/	0.35	88.5%	0.96
26	X6-026Y052	26-52	/	/	0.50	88.0%	0.96
26	X6-026Y043	22-43	/	/	0.60	88.0%	0.96
26	X6-026Y037	20-37	/	/	0.70	87.0%	0.96
30	X6-030Y075	37-75	/	/	0.35	88.0%	0.96
30	X6-030Y060	29-60	/	/	0.50	88.0%	0.96
30	X6-030Y043	20-43	/	/	0.70	87.0%	0.96
35	X6-035Y064	32-64	/	/	0.50	88.0%	0.96
35	X6-035Y050	25-50	/	/	0.70	88.0%	0.96
35	X6-035Y041	20-41	/	/	0.86	88.0%	0.96
35	X6-035Y033	18-33	/	/	1.05	88.0%	0.96
42	X6-042Y084	42-84	/	/	0.50	89.0%	0.97
42	X6-042Y060	30-60	/	/	0.70	89.0%	0.97
42	X6-042Y049	25-49	/	/	0.86	89.0%	0.97
42	X6-042Y040	21-40	/	/	1.05	89.0%	0.97
60	X6-060Y120	60-120	/	/	0.50	89.0%	0.97
60	X6-060Y086	48-86	/	/	0.70	89.0%	0.97
60	X6-060Y070	35-70	/	/	0.86	89.0%	0.97
60	X6-060Y057	34-57	/	/	1.05	89.0%	0.97
60	X6-060Y050	25-50	/	/	1.20	89.0%	0.97
60	X6-060Y043	21-43	/	/	1.40	89.0%	0.97
60	X6-060Y034	20-34	/	/	1.80	89.0%	0.97
75	X6-075Y041	20-41	28-41	1.83-2.67	2.10	89.0%	0.96
75	X6-075Y062	38-62	40-62	1.21-1.88	1.40	89.0%	0.96
75	X6-075Y108	54-108	71-108	0.70-1.05	0.70	90.0%	0.96
105	X6-105Y041	20-41	30-41	2.56-3.50	2.80	90.0%	0.96

Power (W)	Model	Output voltage range (Vdc)	Full power voltage range (Vdc)	Full power current range(A)	Default current settings	Typ. Eff	Typ. PF
105	X6-105Y062	38-62	42-62	1.69-2.50	2.10	91.0%	0.96
105	X6-105Y100	50-100	75-100	1.05-1.40	1.40	91.0%	0.96
105	X6-105Y150	75-150	100-150	0.70-1.05	1.05	92.0%	0.96
120	X6-120Y041	20-41	35-41	2.93-3.50	3.20	91.0%	0.96
120	X6-120Y062	38-62	48-62	1.93-2.50	2.10	91.0%	0.96
120	X6-120Y100	50-100	86-100	1.20-1.40	1.40	92.0%	0.96
120	X6-120Y150	75-150	114-150	0.80-1.05	1.05	92.0%	0.96
150	X6-150Y041	20-41	28-41	3.66-5.40	4.20	91.0%	0.96
150	X6-150Y062	20-62	42-62	2.42-3.60	3.15	91.0%	0.96
150	X6-150Y108	54-108	71-108	1.40-2.10	2.10	91.0%	0.96
150	X6-150Y143	80-143	100-143	1.05-1.50	1.05	92.0%	0.96
150	X6-150Y214	107-214	143-214	0.70-1.05	0.70	92.0%	0.96
200	X6-200Y041	20-41	30-41	4.88-6.67	5.56	91.0%	0.96
200	X6-200Y062	38-62	40-62	3.23-5.00	4.90	92.0%	0.96
200	X6-200Y096	48-96	67-96	2.10-3.00	2.80	93.0%	0.96
200	X6-200Y143	70-143	95-143	1.40-2.10	1.40	93.0%	0.96
200	X6-200Y191	96-191	133-191	1.05-1.50	1.05	93.5%	0.96
200	X6-200Y286	143-286	191-286	0.70-1.05	0.70	93.5%	0.96
240	X6-240Y041	20-41	32-41	5.86-7.50	6.70	92.0%	0.96
240	X6-240Y062	38-62	42-62	3.88-5.71	5.00	92.0%	0.96
240	X6-240Y086	43-86	57-86	2.80-4.20	4.20	92.5%	0.96
240	X6-240Y171	85-171	114-171	1.40-2.10	1.40	93.5%	0.96
240	X6-240Y229	114-229	160-229	1.05-1.50	1.05	93.5%	0.96
240	X6-240Y343	171-343	229-343	0.70-1.05	0.70	93.5%	0.96
320	X6-320Y041	20-41	32-41	7.80-10.00	8.90	92.0%	0.96
320	X6-320Y062	38-62	42-62	5.20-7.50	6.70	93.0%	0.96
320	X6-320Y143	50-143	100-143	2.24-3.20	2.80	93.5%	0.96
320	X6-320Y230	115-230	152-230	1.54-2.11	2.10	93.5%	0.96
320	X6-320Y457	228-457	291-457	0.70-1.10	1.05	93.5%	0.96

* 26W、30W、35W、42W、60W、120W、240W、320W models are under development.

Note: 1. All performance parameters are measured at 25 degrees ambient temperature, 230Vac input, typical values under full load conditions, except as specified.

2. Y=V no dimming, Output adjustable with external resistance, Y=M 0-10V/PWM -/Timing Control, if < 60W, no timing control.

Mechanical Dimension

Power (W)	(L X W X H) (mm)
75W	128.6*68*37
105W	153.6*68*37
150W	173.6*68*37
200W	193.6*68*39
240W	208.6*68*39

* 26W、30W、35W、42W、60W、120W、320W Size to be determined.