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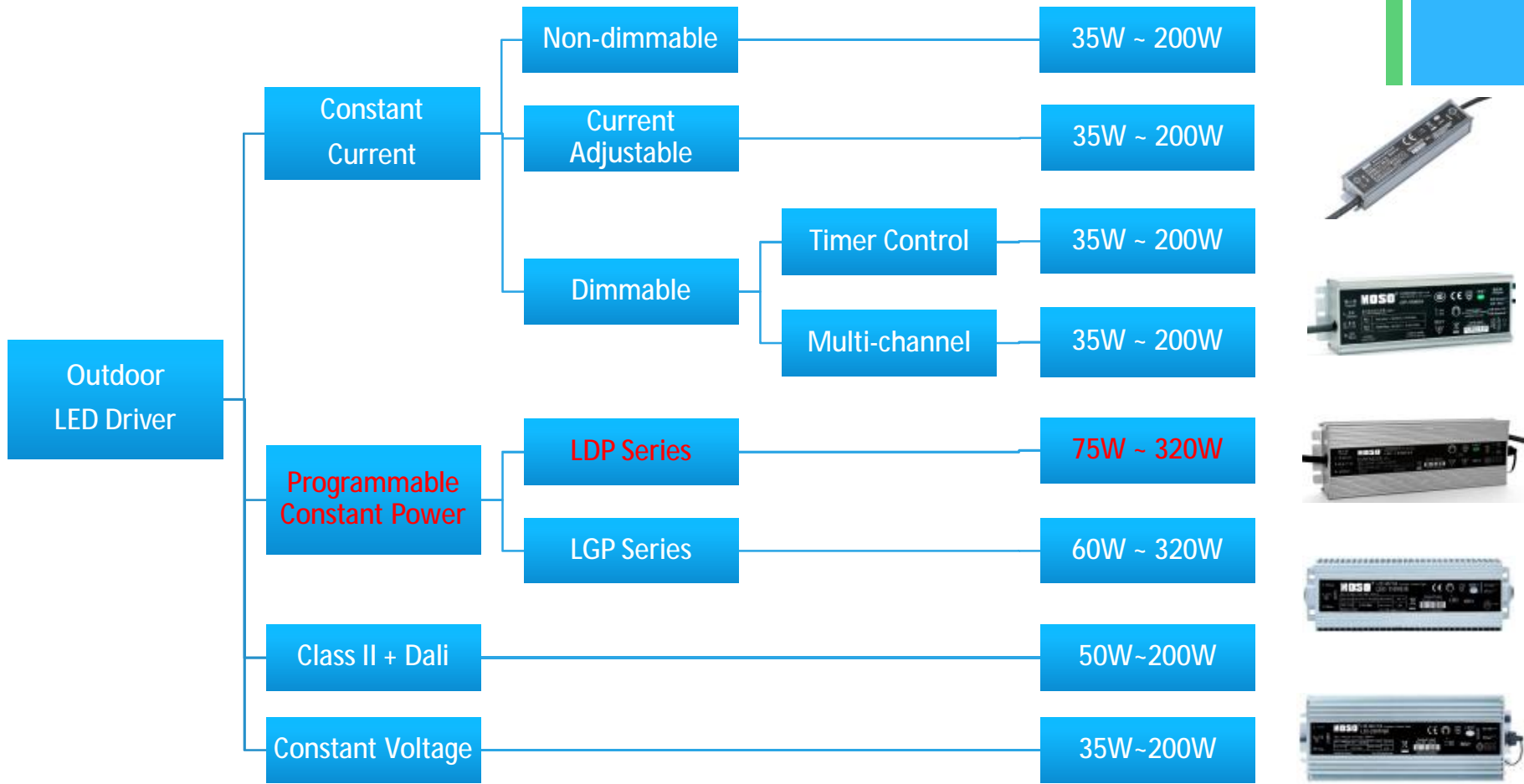


Introduction of MOSO LDP Intelligent LED Driver

2016 Jan Version

+ MOSO Outdoor LED Drivers

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Applications (LDP Series)

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n Applications:

- LED street / roadway lighting
- LED harbor lighting
- LED bay lighting
- LED greenhouse lighting
- LED area lighting
- LED flood lighting
- LED tunnel lighting
- LED ceiling / canopy / garage lighting



+ Core Technologies (LDP Series)

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n Features:

- MCU control, output current adjustable, output voltage self-adjustable;
- 3-in-1 dimming: 0~10Vdc, PWM signal, timer control;
- Universal input: 90~305Vac;
- Typical efficiency up to 93%;
- Built-in active PFC;
- Overall protection: SCP, OVP, OTP;
- Surge immunity: line to line 5KV, line to earth 10KV;
- IP67, suitable for dry / damp / wet locations;
- Working temperature: -40° C ~ 60° C;
- Safety standards: CCC, CE, CB, SAA, ENEC, UL;
- 5 years warranty.



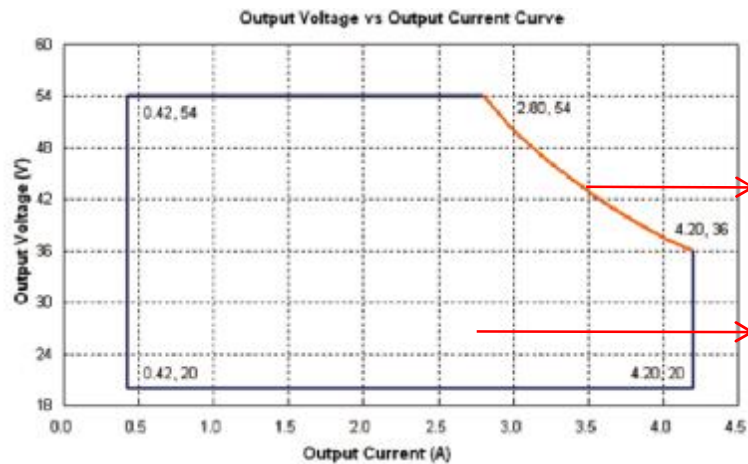
Model	Rated Power	Input Voltage	Output Voltage Range	Output Current Range	Typical Effi.	Dimming	Dimension (mm)
LDP-075X054H	75W	90~305 Vac	20~54 Vdc	1.40~2.10 A	87%	0~10V,PWM, Resistor, Timer	164*68*39
LDP-075X062H	75W	90~305 Vac	35~62 Vdc	1.20~1.67 A	87%	0~10V,PWM, Resistor, Timer	164*68*39
LDP-075X141H	75W	90~305 Vac	60~141 Vdc	0.53~1.10 A	88%	0~10V,PWM, Resistor, Timer	164*68*39
LDP-075X270H	75W	90~305 Vac	120~270 Vdc	0.28~0.53 A	88%	0~10V,PWM, Resistor, Timer	164*68*39
LDP-105X062	105W	90~305 Vac	20~62 Vdc	1.69~3.00 A	90%	0~10V,PWM, Resistor, Timer	178*68*39
LDP-105X150	105W	90~305 Vac	60~150 Vdc	0.70~1.40 A	91%	0~10V,PWM, Resistor, Timer	178*68*39
LDP-105X305	105W	90~305 Vac	120~305 Vdc	0.34~0.86 A	91%	0~10V,PWM, Resistor, Timer	178*68*39
LDP-120X062	120W	180~305 Vac	20~62 Vdc	1.93~3.00 A	92%	0~10V,PWM, Resistor, Timer	178*68*39
LDP-120X170	120W	180~305 Vac	60~170 Vdc	0.70~1.40 A	92%	0~10V,PWM, Resistor, Timer	178*68*39
LDP-120X305	120W	180~305 Vac	120~305 Vdc	0.40~0.70 A	92%	0~10V,PWM, Resistor, Timer	178*68*39
LDP-150X054	150W	90~305 Vac	20~54 Vdc	2.80~4.20 A	90%	0~10V,PWM, Resistor, Timer	207*68*39
LDP-150X120	150W	90~305 Vac	60~120 Vdc	1.25~2.10 A	92%	0~10V,PWM, Resistor, Timer	207*68*39
LDP-150X214	150W	90~305 Vac	80~240 Vdc	0.70~1.10 A	92%	0~10V,PWM, Resistor, Timer	207*68*39
LDP-150X335	150W	90~305 Vac	176~335 Vdc	0.07~0.70 A	91%	0~10V,PWM, Resistor, Timer	207*68*39
LDP-200X054	200W	90~305 Vac	20~54 Vdc	3.70~6.30 A	90%	0~10V,PWM, Resistor, Timer	207*68*39
LDP-200X120	200W	90~305 Vac	60~120 Vdc	1.67~2.80 A	91%	0~10V,PWM, Resistor, Timer	207*68*39
LDP-200X305	200W	90~305 Vac	120~305 Vdc	0.65~1.40 A	91%	0~10V,PWM, Resistor, Timer	207*68*39
LDP-200X445	200W	90~305 Vac	230~420 Vdc	0.45~0.70 A	91%	0~10V,PWM, Resistor, Timer	207*68*39
LDP-240X041	240W	90~305 Vac	20~41 Vdc	5.86~7.50 A	92%	0~10V,PWM, Resistor, Timer	247*68*43.5
LDP-240X062	240W	90~305 Vac	20~62 Vdc	3.87~5.20 A	92%	0~10V,PWM, Resistor, Timer	247*68*43.5
LDP-240X180	240W	90~305 Vac	80~180 Vdc	1.33~2.10 A	92%	0~10V,PWM, Resistor, Timer	247*68*43.5
LDP-240X368	240W	90~305 Vac	190~368 Vdc	0.65~1.10 A	92%	0~10V,PWM, Resistor, Timer	247*68*43.5
LDP-320X041	320W	90~305 Vac	20~41 Vdc	7.80~10.0 A	93%	0~10V,PWM, Resistor, Timer	234*98*40
LDP-320X062	320W	90~305 Vac	20~62 Vdc	5.16~8.20 A	92%	0~10V,PWM, Resistor, Timer	234*98*40
LDP-320X230	320W	90~305 Vac	120~230 Vdc	1.39~2.10 A	93%	0~10V,PWM, Resistor, Timer	234*98*40
LDP-320X457	320W	90~305 Vac	235~457 Vdc	0.70~1.10 A	93%	0~10V,PWM, Resistor, Timer	234*98*40

+ Core Technologies (Current adjustable at same wattage)

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Model	Output power (W)	Output voltage range(Vdc)		Output current adjustable range(A)		Default output spec		Eff.
		Min.	Max.	Min.	Max.	Voltage (V)	Current (A)	
LDP-150X054	150	20	54	2.80	4.20	36	4.20	90%
LDP-150X120	150	60	120	1.25	2.10	107	1.40	92%
LDP-150X214	150	80	240	0.70	1.10	214	0.70	92%
LDP-150X335	150	176	335	0.45	0.70	214	0.70	91%

Reference: E6 150W typical specification



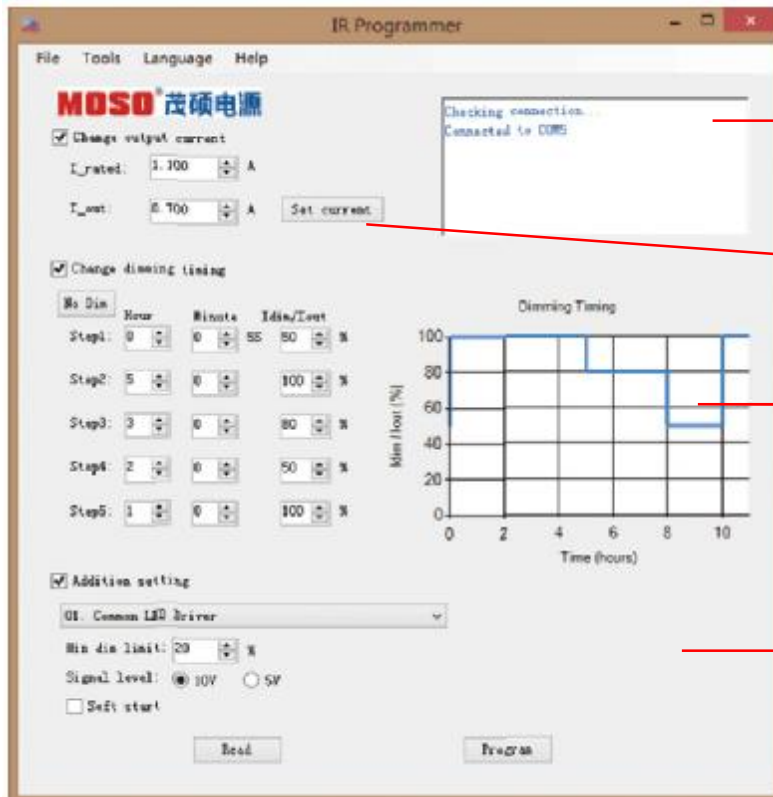
→ Current can be 2.8A~4.2A for 150W max power output

→ Current can be 0.42A~4.2A for <150W power output

Reference: E6 150W LDP-150M054

+ Core Technologies (Current & dimming programmable)

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→ Read setting of current / timer dimming schedules

→ Set output current

→ Set 5 phase timer dimming schedules in mid-night

→ Set min dimming value (if necessary)

Software interface for LDP series led driver

+ Core Technologies (Infrared control)

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Use IR controller to configure output current

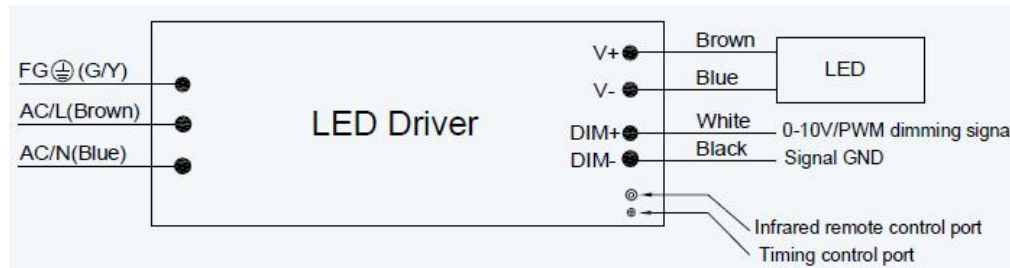
1. Inserting receiving terminal of the remote controller into the bigger hole site of side plate of the power supply, shown as the left picture.
2. First, press the key "ON" to unlock, then press the function key to adjust current what you need with in 10S.

Operation instruction:

- ✘ 10%-100% : Different rate of maximum output current.
- ✘ +, - : Current fine tuned keys, every step is 1%.
- ✘ ON : the key of opening the controller.
- ✘ OFF : the key of setting the minimum current.
- ✘ SET : reserved key, no function by now.

+ Core Technologies (3-in-1 Dimming)

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3-in-1 Dimming

ü 0~10V

ü PWM

ü Resister

ü (Dali will be released in Jan 2016)

Dimming Interface		
Mode	Electrical Interface	
PWM dimming	Frequency	250Hz~1000Hz
	High voltage level	9.7~10.3V or 4.85~5.15V
	Low voltage level	0~0.3V
	Sink current	<2.0 mA
	Open circuit of dimming	100% output current
	Linear dimming range	10%~100%I _r
	Short circuit of dimming	10% I _r output current
0-10V dimming	Dimming signal voltage	0~10V _{pp} (±1%)
	Sink current	<2.0 mA
	Open circuit of dimming	100% output current
	Linear dimming range	10%~100%I _r
	Short circuit of dimming	10% I _r output current

+ Comparison with equivalent brands

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Brand	MOSO	Other equivalent brands
AC Input Range	90~305 Vac	180~295 Vac
IP Rating	IP67	IP65 / IP67
Output Current Adjustable	Infrared controller / programming device	Output cable / internal potentiometer
Current Adjustable Range	0.11A~1.1A rated, 0.70A~1.1A @ 150W	By internal potentiometer, or fixed output current
3-in-1 Dimming	0~10Vdc, PWM, resistance	0~10Vdc, PWM, resistance, optional
Timer Dimming	Standard function	Optional
Voltage Range	90~305 Vac	180 ~ 295Vac
Power Factor	PF \geq 0.97/115VAC, PF \geq 0.95/230VAC at full load	PF \geq 0.95/230VAC, PF \geq 0.92/277VAC at full load
Total Harmonic Distortion	THD < 15%	THD < 20% when output loading \geq 50% at 230VAC input and output loading \geq 75% at 277VAC input
Over Temperature	Output decrease to 70% when case temperature >85°C, re-power to recover	Shut down o/p voltage, re-power on to recovery
Surge Protection	10KV (EN 61000-4-5:2014)	6KV



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THE END

THANK YOU FOR YOUR SUPPORT!

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