



Features :

- DC/DC step-up converter
- Constant current output : 350mA to 1050mA
- Wide output LED string voltage up to 126VDC
- High efficiency up to 95%
- Built-in EMI filter, comply with EN55015 without additional input filter and capacitors
- PWM + analog dimming and remote ON/OFF control [(Blank) type or W type]
- DALI dimming [(Blank)DA type or WDA type]
- Protections: Short circuit / Over voltage / Under voltage
- Cooling by free air convection
- Fully encapsulated
- 3 years warranty



LDH-45□-350○ □=A or B; A: 9~18VDC input range, B: 18~32VDC input range
○=(Blank) or W or (Blank)DA or WDA ;
(Blank): PIN style, PWM+analog dimming
W: Wire style, PWM+analog dimming
(Blank)DA: PIN style, DALI dimming
WDA: Wire style, DALI dimming

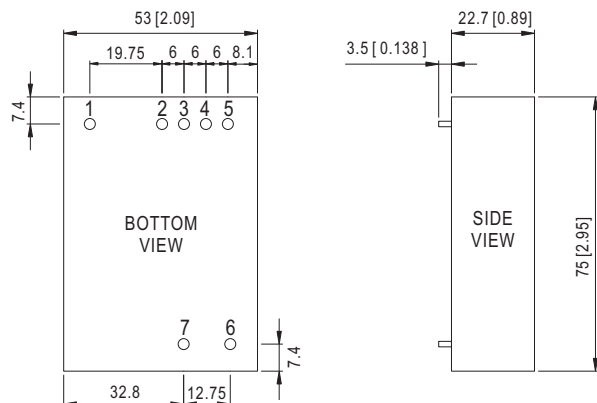
SPECIFICATION

MODEL		LDH-45A-350○	LDH-45A-500○	LDH-45A-700○	LDH-45A-1050○	LDH-45B-350○	LDH-45B-500○	LDH-45B-700○	LDH-45B-1050○	
OUTPUT	RATED CURRENT	350mA	500mA	700mA	1050mA	350mA	500mA	700mA	1050mA	
	CURRENT ACCURACY(Typ.)		±5% at 12VDC input				±5% at 24VDC input			
	VOLTAGE RANGE Note.2	Non-DALI	12~86VDC	12~86VDC	12~64VDC	12~43VDC	21~126VDC	21~86VDC	21~64VDC	21~43VDC
		DALI	24~86VDC	24~86VDC	24~64VDC	24~43VDC	36~126VDC	36~86VDC	36~64VDC	36~43VDC
	NO LOAD OUTPUT VOLTAGE(max.)		100V	100V	75V	50V	146V	100V	75V	50V
	RATED POWER		30.1W	43W	44.8W	45.15W	44.1W	43W	44.8W	45.15W
RIPPLE & NOISE (max.) Note.3		2.5Vp-p	2.5Vp-p	1.9Vp-p	1.9Vp-p	2.5Vp-p	1.7Vp-p	1.2Vp-p	1.2Vp-p	
INPUT	RATED VOLTAGE		12VDC				24VDC			
	VOLTAGE RANGE Note.2		9~18VDC				18~32VDC			
	EFFICIENCY (max.)		91%	90%	90%	91%	93%	94%	95%	95%
	DC CURRENT (Typ.)		2.8A	4.1A	4.2A	4.2A	2.1A	2.1A	2A	2A
PWM DIMMING & ON/OFF CONTROL	REMOTE ON/OFF		Leave open if not used							
			Power ON with dimming: PWM signal >2~8VDC or open circuit, between PWM DIM and DIM-							
			Power OFF : PWM signal <0.5VDC or short or PWM duty is equal to 0%, between PWM DIM and DIM-							
	PWM DIMMING FREQUENCY		1K~10KHz							
QUIESCENT INPUT CURRENT IN SHUTDOWN MODE(Typ.)		7mA when PWM dimming OFF								
ANALOG DIMMING & ON/OFF CONTROL	REMOTE ON/OFF		Leave open if not used							
			Power on with dimming: DC input >0.25~8VDC or open circuit, between Analog DIM and DIM-							
			Power off : DC input <0.2VDC or short, between Analog DIM and DIM-							
	DIM INPUT VOLTAGE RANGE		0.25~1.3VDC							
	MAX OPERATION VOLTAGE		8V; The output current remains constant when voltage changes from 1.3V to 8V							
QUIESCENT INPUT CURRENT IN SHUTDOWN MODE(Typ.)		7mA when Analog dimming OFF								
PROTECTION	SHORT CIRCUIT		Protection type : Power OFF and fuse open							
	OVER VOLTAGE (max.)		100V	100V	75V	50V	146V	100V	75V	50V
ENVIRONMENT			Protection type : Constant output voltage and shut off o/p current, recovers automatically after fault condition is removed							
	WORKING TEMP.		-40 ~ +70℃ (Refer to "Derating Curve")							
	WORKING HUMIDITY		20 ~ 90% RH non-condensing							
	STORAGE TEMP., HUMIDITY		-40 ~ +85℃, 10 ~ 95% RH							
	TEMP. COEFFICIENT		±0.03%/℃ (0 ~ 50℃)							
SAFETY & EMC	VIBRATION		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes							
	SAFETY STANDARDS		EAC TP TC 004 approved							
	EMC EMISSION		Compliance to EN55015;EAC TP TC 020							
	EMC IMMUNITY		Compliance to EN61547,EN61000-4-2,3,4,6,8; light industry level, criteria A;EAC TP TC 020							
OTHERS	MTBF		1179.3Khrs min. MIL-HDBK-217F (25□)							
	DIMENSION		75*53*22.7mm (L*W*H)							
	PACKING		138g;100pcs/14.8Kg/0.83CUFT[(Blank) type or (Blank) DA type],1.04CUFT(W type or WDA type)							
NOTE	1. All parameters are specified at normal input(12VDC,24VDC), rated load, 25℃ 70% RH ambient. 2. (Blank) type and W type output voltage must step up by 3 Volts from input DC voltage; (Blank)DA type and WDA type output voltage must step up by 12 Volts from input DC voltage. 3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf parallel capacitor.									

Mechanical Specification

LDH (PIN Style):

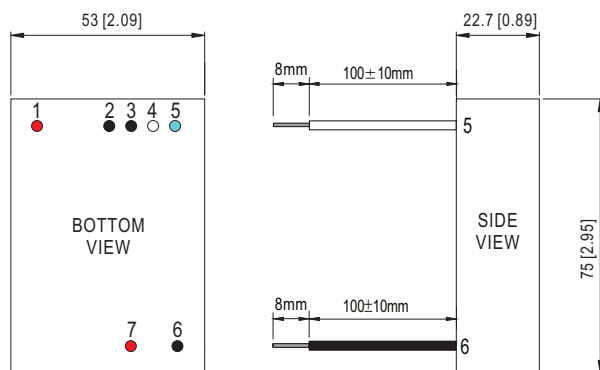
Unit: mm [inch]


NOTE: PIN size tolerance 1.0 ϕ $\pm$ 0.05mm

Pin Configuration

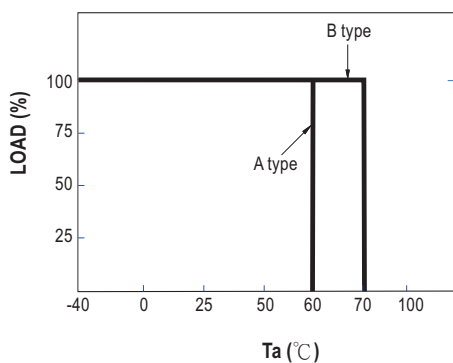
PIN No.	Output	Description
1	Vin+	DC Supply
2	Vin-	Don't connect to Vout-
3	DIM-	○=(Blank) type: GND of DIM signal Don't connect to Vout- or Vin-
	DA-	○=(Blank)DA type: DALI- signal
4	Analog DIM	○=(Blank) type: ON/OFF and analog dimming (leave open if not used)
	DA+	○=(Blank)DA type: DALI+ signal
5	PWM DIM	ON/OFF and PWM dimming (leave open if not used) [(Blank)DA type: no such PIN]
6	Vout-	LED - connection
7	Vout+	LED + connection

LDH (Wire Style):

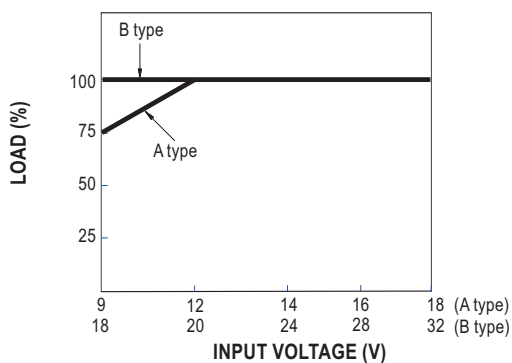


PIN No.	Output	Description
1	Vin+(red)	DC Supply
2	Vin-(black)	Don't connect to Vout-
3	DIM-(black)	○=W type: GND of DIM signal Don't connect to Vout- or Vin-
	DA-(white)	○=WDA type: DALI- signal
4	Analog DIM (white)	○=W type: ON/OFF and analog dimming (leave open if not used)
	DA+(blue)	○=WDA type: DALI+ signal
5	PWM DIM (blue)	ON/OFF and PWM dimming (leave open if not used) [WDA type: no such PIN]
6	Vout-(black)	LED - connection
7	Vout+(red)	LED + connection

Derating Curve



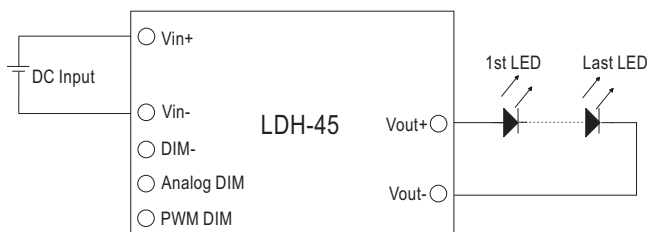
Static Characteristics



Standard Application

※ Operation without dimming:

IO operates at rated current without dimming function when the pins of analog DIM and PWM DIM keep open

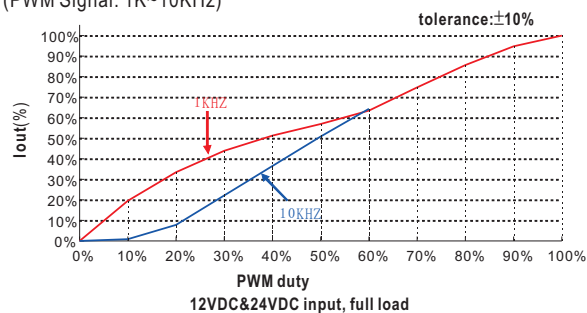


※ PWM Dimming Control (non DA type):

IO adjustment by PWM Signal



During PWM dimming operation, IO will change with the PWM duty (PWM Signal: 1K~10KHz)



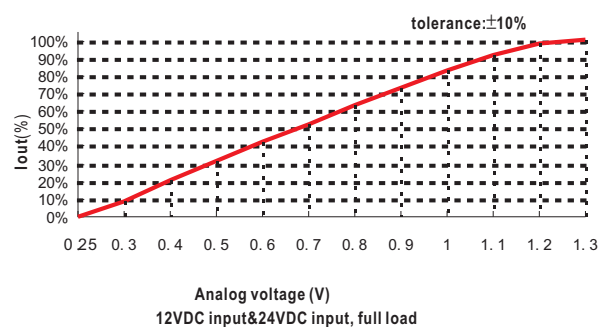
Note: DALI dimming curve refer to 10KHz curve

※ Analog Dimming Control (non DA type):

IO adjustment by DC voltage



During analog dimming operation, IO will change with DC input voltage



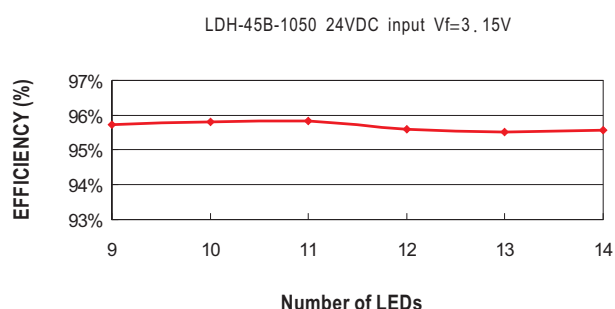
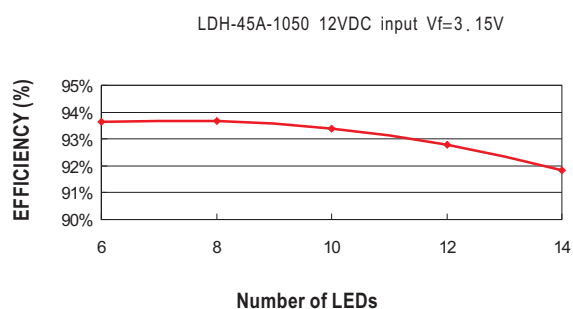
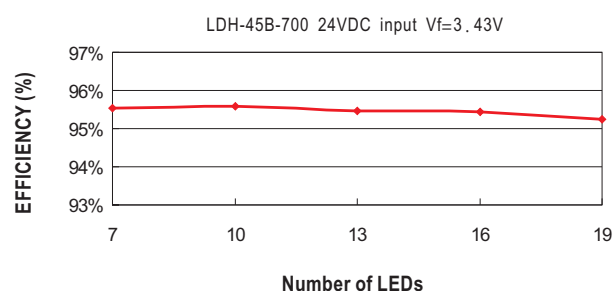
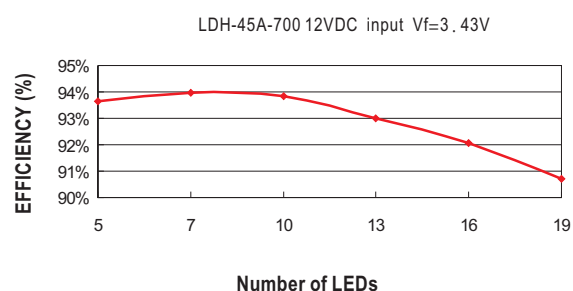
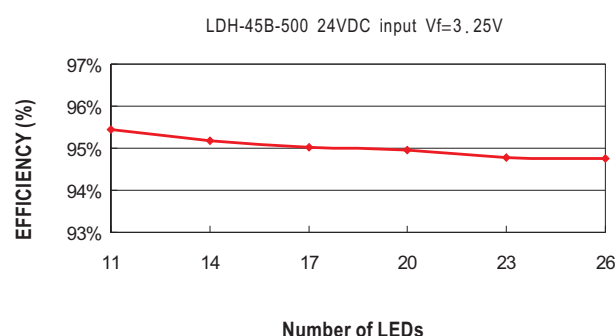
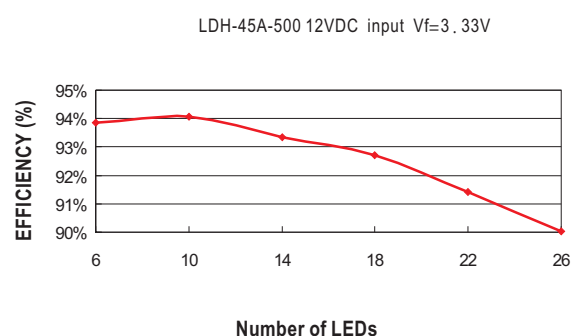
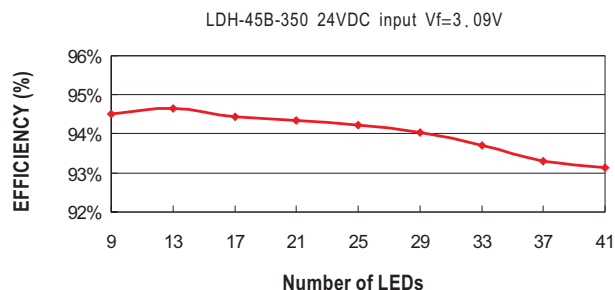
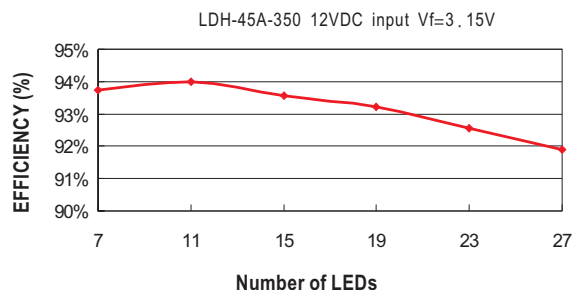
※ DALI Dimming Control (DA type only):

IO adjustment by DALI signal



- DALI protocol including 16 groups and 64 addresses.
- Min. dimming level is about 8% of output.

■ Efficiency VS Output Voltage(Number of LEDs)



Application Notes:

1. The positive and negative input terminals must be connected correctly and negative voltage can not be input to avoid damage to the power supply.
2. Due to the large input current, please pay attention to the voltage drop of the wiring, to ensure the power supply to work properly.
3. At dim off, LDH output voltage will drop to the same level as input voltage. To get luminaires complete dark, please make luminaires are light off when they are driving by the input voltage.

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

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Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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