



■ 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
- Protections: Short circuit / Over voltage / Under voltage
- Cooling by free air convection
- Fully encapsulated
- 3 years warranty



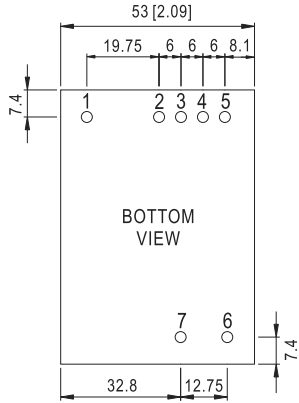
LDH-45 □-350 ○ □=A or B; A: 9~18VDC input range, B: 18~32VDC input range
○=Blank or W; Blank:pin style, W:wire style

SPECIFICATION

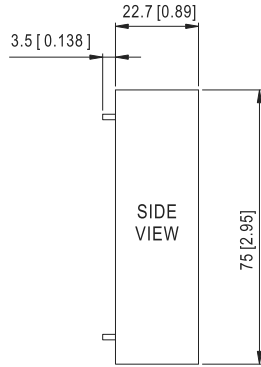
MODEL	LDH-45A-350○	LDH-45A-500○	LDH-45A-700○	LDH-45A-1050○	LDH-45B-350○	LDH-45B-500○	LDH-45B-700○	LDH-45B-1050○	
OUTPUT	RATED CURRENT								
	CURRENT ACCURACY(Typ.)								
	VOLTAGE RANGE Note.3								
	NO LOAD OUTPUT VOLTAGE(max.)								
	RATED POWER								
INPUT	RIPPLE & NOISE (max.) Note.2								
	RATED VOLTAGE								
	VOLTAGE RANGE								
	EFFICIENCY (max.)								
	DC CURRENT (Typ.)								
PWM DIMMING & ON/OFF CONTROL	REMOTE ON/OFF								
	PWM DIMMING FREQUENCY								
	QUIESCENT INPUT CURRENT IN SHUTDOWN MODE(Typ.)								
	ANALOG DIMMING & ON/OFF CONTROL								
PROTECTION	SHORT CIRCUIT								
	OVER VOLTAGE (max.)								
	ENVIRONMENT								
EMC	WORKING TEMP.								
	WORKING HUMIDITY								
	STORAGE TEMP., HUMIDITY								
	TEMP. COEFFICIENT								
OTHERS	VIBRATION								
	EMC EMISSION								
	EMC IMMUNITY								
NOTE	MTBF								
	DIMENSION								
	PACKING								

■ Mechanical Specification

LDH (Pin Style):



Unit: mm (inch)

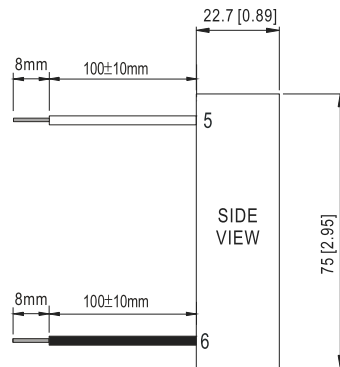
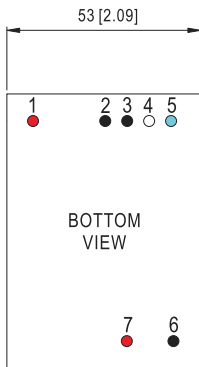


NOTE: Pin size tolerance 1.0 φ ±0.05mm

■ Pin Configuration

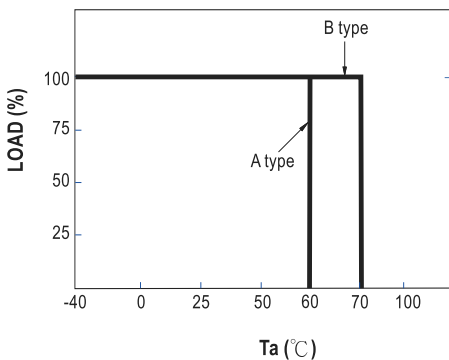
Pin No.	Output	Description
1	Vin+	DC Supply
2	Vin-	Don't connect to Vout-
3	DIM-	GND of DIM signal Don't connect to Vout- or Vin-
4	Analog DIM	ON/OFF and analog voltage dimming (leave open if not used)
5	PWM DIM	ON/OFF and PWM dimming (leave open if not used)
6	Vout-	LED - connection
7	Vout+	LED + connection

LDH (Wire Style):

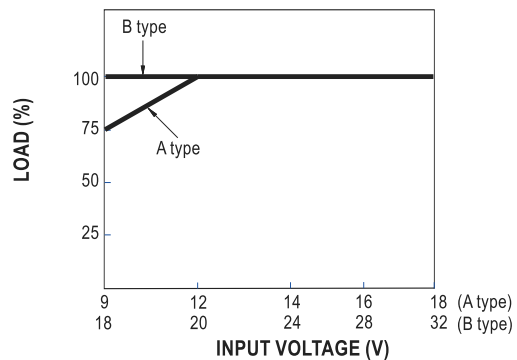


Pin No.	Output	Description
1	Vin+(red)	DC Supply
2	Vin-(black)	Don't connect to Vout-
3	DIM-(black)	GND of DIM signal Don't connect to Vout- or Vin-
4	Analog DIM (white)	ON/OFF and analog voltage dimming (leave open if not used)
5	PWM DIM (blue)	ON/OFF and PWM dimming (leave open if not used)
6	Vout-(black)	LED - connection
7	Vout+(red)	LED + connection

■ Derating Curve



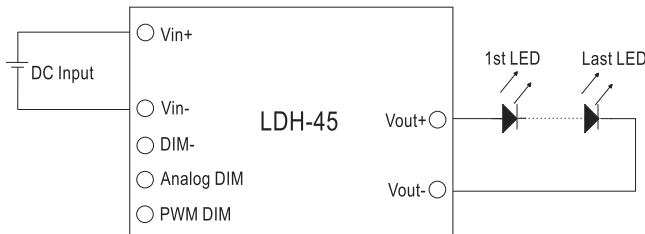
■ Static Characteristics



■ **Standard Application**

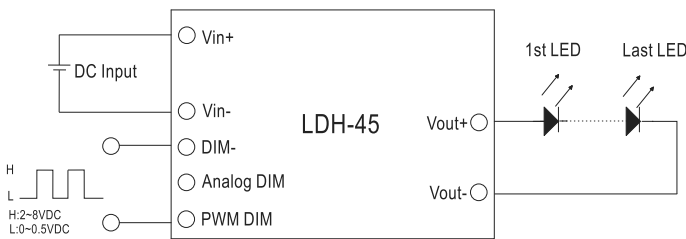
Operation without dimming:

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



PWM Dimming Control:

I_O adjustment by PWM Signal

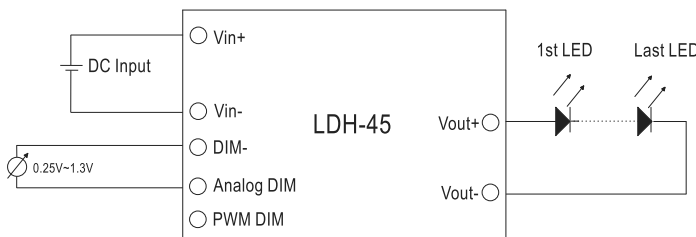


During PWM dimming operation, I_O will change with the PWM duty (PWM Signal: 1K~10KHz)

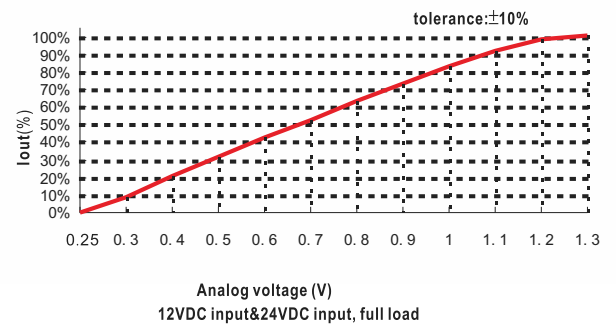


Analog Dimming Control:

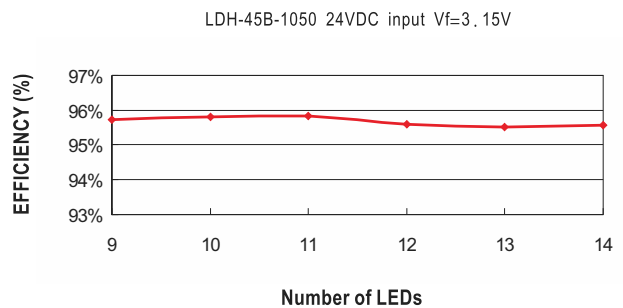
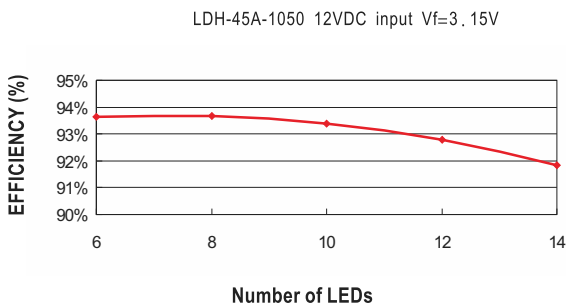
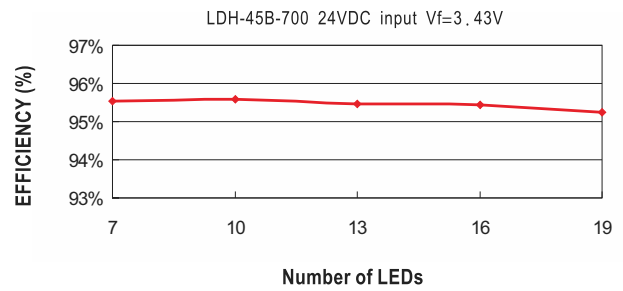
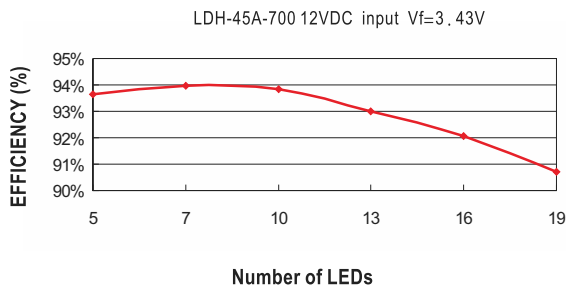
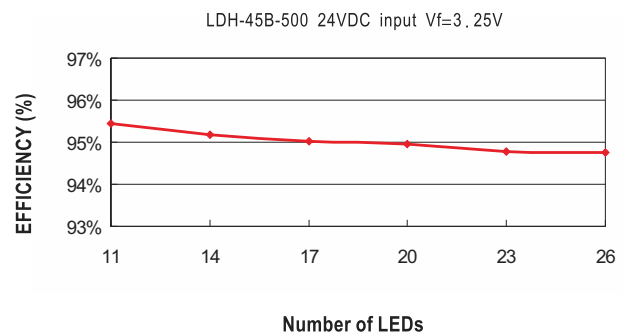
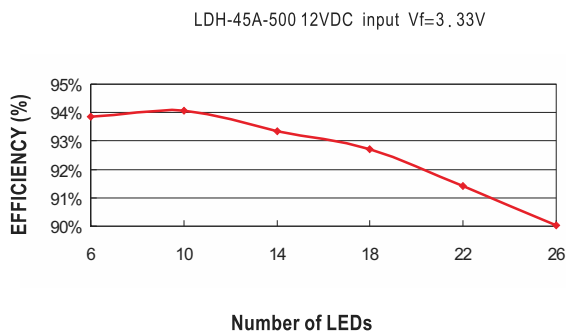
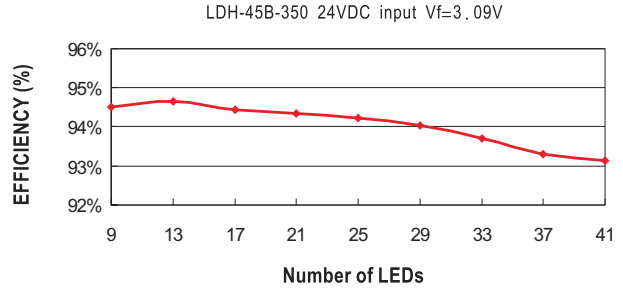
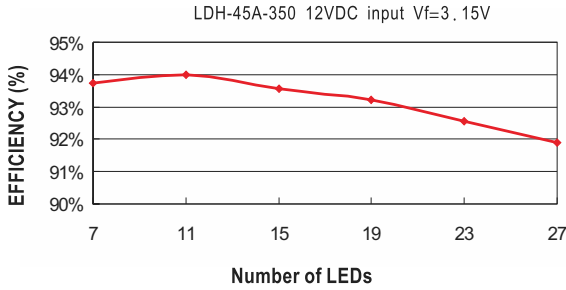
I_O adjustment by DC voltage



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



■ Efficiency VS Output Voltage(Number of LEDs)



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Mean Well:

[LDH-45A-500W](#) [LDH-45B-700](#) [LDH-45A-1050](#) [LDH-45A-500](#) [LDH-45A-700W](#) [LDH-45B-350](#) [LDH-45A-350W](#) [LDH-45A-350](#) [LDH-45A-700](#) [LDH-45B-350W](#) [LDH-45B-500W](#) [LDH-45B-500](#) [LDH-45B-700W](#) [LDH-45A-1050W](#) [LDH-45B-1050](#) [LDH-45B-1050W](#)