

# LDD & LDB series



## DC-DC Constant Current LED Driver Modules

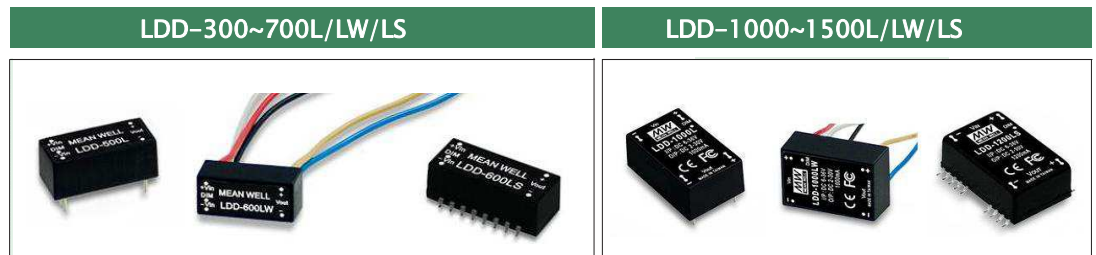
### LDD-L Features:

### New! Step-Up drivers and DALI control available!

- **Constant current step-down LED driver**
- Wide input and output voltage range
- High efficiency up to 95%
- **Complies with EN55015 and FCC part 15 without additional input filtering or capacitors**
- 300~700mA: PWM dimming and remote ON/OFF control  
1000~1500mA: PWM + analog dimming and remote ON/OFF control
- Protection: Short circuit / Over temperature (300~700mA only)

- Compact size
- Operating temperature range:  
300 ~ 700mA: -40°C ~ +85°C  
1000 ~ 1500mA: -40°C ~ +71°C
- Cooling by free air convection
- Fully enclosed plastic case (UL 94V-0)
- Low cost, high reliability
- **3 year warranty**

Please refer to [www.procontechology.com.au](http://www.procontechology.com.au) for detailed specs.



Output current accuracy	±5% at 24VDC input		
PWM dimming & ON/OFF control	Remote ON/OFF	Leave open when not needed • Power ON with dimming: DIM ~ -Vin > 3.5~8VDC or open circuit • Power OFF: DIM ~ -Vin < 0.5VDC or short	• Power ON with dimming: DIM ~ -Vin > 2.6~5.5VDC or open circuit • Power OFF: DIM ~ -Vin < 0.4VDC or short
	PWM frequency	100~1KHz	100~500Hz
Analog dimming & ON/OFF control	Remote ON/OFF	None	Leave open when not needed • Power ON with dimming: DIM ~ -Vin > 0.5~2.5VDC or open circuit • Power OFF: DIM ~ -Vin < 0.4VDC or short
Short circuit protection	Regulated at rated output current, may be continuous, auto-recovery		
Over temp. protection	Shut-down, recovers automatically after temperature goes down		None
Working temperature	-40°C ~ +85°C (refer to output derating curve)		-40°C ~ +71°C (refer to output derating curve)
EMC standards	EN55015, EN61547, EN61000-4-2,3,4,6,8, FCC part 15 class B		
Operating case temp. (max)	100°C		
Dimension (LxWxH)	LDD-300~700L/LW: 22.6x9.9x8.9mm LDD-300~700LS: 25.4x10.5x9.3mm		LDD-1000~1500L/LW: 31.8x20.3x12.2mm LDD-1000~1500LS: 31.8x20.3x10.9mm

### LDD-L Series



Model No.	Input (VDC)	Output		I/O Tol.	Eff.	Dimming
		Voltage (VDC)	Current (mA)			
LDD-300L <input type="checkbox"/>	9~36 (LDD-300~700LS: 9~32)	2~32 (LDD-300~700LS: 2~28)	300	±5%	95%	PWM
LDD-350L <input type="checkbox"/>			350			
LDD-500L <input type="checkbox"/>			500			
LDD-600L <input type="checkbox"/>			600			
LDD-700L <input type="checkbox"/>			700			
LDD-1000L <input type="checkbox"/>	6~36	2~30	1000			PWM + Analog
LDD-1200L <input type="checkbox"/>			1200			
LDD-1500L <input type="checkbox"/>			1500			

= Blank, W, S; Blank: pin style (PCB thru-hole type), W: wire style, S: SMD style

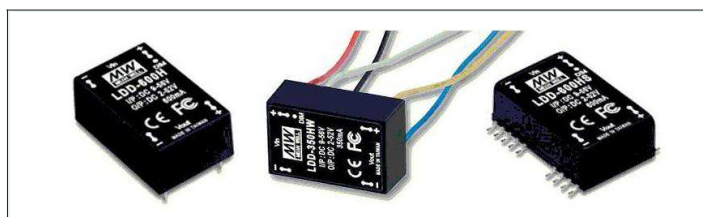
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## DC-DC Constant Current LED Driver Modules

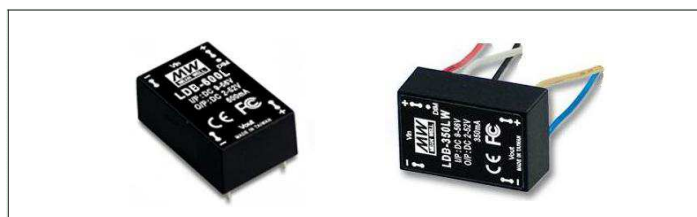
### LDD-H/HW/HS

- **Constant current step-down LED driver**
- Wide input and output voltage range
- High efficiency up to 97%
- Complies with EN55015 and FCC part 15 without additional input filtering or capacitors
- PWM dimming and remote ON/OFF control
- Protection: Short circuit / Over temp.
- Compact size
- Operating temperature range:  $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- Cooling by free air convection
- Fully enclosed plastic case (UL 94V-0)
- **3 year warranty**



### LDB-L/LW

- **Constant current buck-boost LED driver**
- Wide input and output voltage range
- High efficiency up to 90%
- Complies with EN55015 and FCC part 15 without additional input filtering or capacitors
- PWM dimming and remote ON/OFF control
- Protection: Short circuit / Over temp.
- Operating temperature range:  $-40^{\circ}\text{C} \sim +71^{\circ}\text{C}$
- Cooling by free air convection
- Fully enclosed plastic case (UL 94V-0)
- **3 year warranty**



Output current accuracy		$\pm 3\%$ at 24VDC input; $\pm 4\%$ at 48VDC input for LDD-H/HW; $\pm 5\%$ at 48VDC input for LDD-HS
PWM dimming & ON/OFF control	Remote ON/OFF	Leave open when not needed • Power ON with dimming: DIM ~ -Vin > 2.5~6VDC or open circuit • Power OFF: DIM ~ -Vin < 0.8VDC or short
	PWM frequency	100~1KHz
Short circuit		Regulated at rated output current, can be continuous, auto-recovery
Over temperature protection		Shut down, recovers automatically after temperature goes down
Working temperature		$-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
EMC standards		EN55015, EN61547, EN61000-4-2,3,4,6,8, FCC part 15 class B
Operating case temp. (max)		100°C
Dimension (LxWxH)		LDD-H/HW: 31.8x20.3x12.2mm LDD-HS: 31.8x20.3x10.9mm

Output current accuracy		$\pm 5\%$
PWM dimming & ON/OFF control	Remote ON/OFF	Leave open when not needed • Power ON with dimming: DIM ~ -Vin > 2~5VDC or open circuit • Power OFF: DIM ~ -Vin < 0.1VDC or short
	PWM frequency	1KHz
Short circuit		Regulated at rated output current, can be continuous, auto-recovery
Over temperature protection		Shut down, recovers automatically after temperature goes down
Working temperature		$-40^{\circ}\text{C} \sim +71^{\circ}\text{C}$
EMC standards		EN55015, EN61547, EN61000-4-2,3,4,6,8, FCC part 15 class B
Operating case temp. (max)		110°C
Dimension (LxWxH)		31.8x20.3x12.2mm

### LDD-H Series



Model No.	Input (VDC)	Output		I/O Tol.	Eff.
		Voltage (VDC)	Current (mA)		
LDD-300H <input type="checkbox"/>	9~56	2~52	300	$\pm 4\%$	97%
LDD-350H <input type="checkbox"/>	9~56	2~52	350	$\pm 4\%$	97%
LDD-500H <input type="checkbox"/>	9~56	2~52	500	$\pm 4\%$	97%
LDD-600H <input type="checkbox"/>	9~56	2~52	600	$\pm 4\%$	97%
LDD-700H <input type="checkbox"/>	9~56	2~52	700	$\pm 4\%$	97%
LDD-1000H <input type="checkbox"/>	9~56	2~52	1000	$\pm 4\%$	97%

= Blank, W, S; Blank: pin style, W: wire style, S: SMD style

### LDB-L Series



Model No.	Input (VDC)	Output		I/O Tol.	Eff.
		Voltage (VDC)	Current (mA)		
LDB-300L <input type="checkbox"/>	9~36	2~40	300	$\pm 5\%$	90%
LDB-350L <input type="checkbox"/>	9~36	2~40	350	$\pm 5\%$	90%
LDB-500L <input type="checkbox"/>	9~30	2~32	500	$\pm 5\%$	90%
LDB-600L <input type="checkbox"/>	9~28	2~30	600	$\pm 5\%$	90%

= Blank, W; Blank: pin style, W: wire style