

# LDV/LDD/SPD series

Multiple Channel Output / DC-DC Driver / Surge Protection Device

## 185W Multiple Channel Output with PFC



- 180~295VAC input range
- 6CH/700mA or 12CH/350mA constant current output
- Built-in active PFC
- Protections: Short circuit / Over voltage / Over temp.
- Cooling by free air convection
- IP67 design for indoor or outdoor installations
- 3 years warranty

AC input voltage range		180~295VAC; 254~417VDC
AC inrush current		Cold start, 60A at 230VAC
Over voltage protection		A: 41~50V, B: 47~50V, C: 54~63V
Working temperature		-30~+70°C
Safety standards		Design refer to UL8750, EN61347-1, EN61347-2-13
EMC standards		EN55015, EN61000-3-2 class C, EN61000-3-3, EN61547, EN61000-4-2,3,4,5,6,8,11
Connection	Input	UL rated, 18AWGx3C(30cm)
	Output	6 CH: 22AWGx13C (15cm) with one connector 12CH: 22AWGx12C/13C (15cm) with two connectors

Model No.	Output	Io Tol.	Effi.	Max.
LDV-185-350A	30~35V, 350mA	±5%	88%	147W
LDV-185-350B	35~40V, 350mA	±5%	88%	168W
LDV-185-350C	40~48V, 350mA	±5%	88%	185W
LDV-185-700A	30~35V, 700mA	±5%	88%	147W
LDV-185-700B	35~40V, 700mA	±5%	88%	168W
LDV-185-700C	40~48V, 700mA	±5%	88%	185W

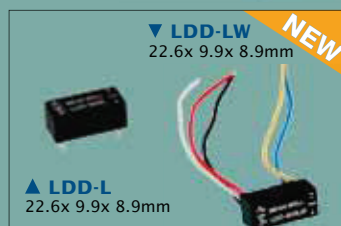
□ = Blank or D ; Blank: No timer dimming function,  
(Option): Timer dimming function

► To design a LED street lamp, what solution can MEAN WELL offer?

HLG-185 Direct Drive	LDV-185 Multiple Channel C.C. Output	HLG-185+LDD AC/DC PSU+DC/DC Driver
<ul style="list-style-type: none"> <li>▪ Lowest price</li> <li>▪ Simplest design</li> <li>▪ Failure in any string will affect other strings</li> <li>▪ Unbalanced current in each string</li> </ul>	<ul style="list-style-type: none"> <li>▪ Built-in DC/DC driver ICs in LDV-185</li> <li>▪ Each channel need to have the same LED quantity</li> <li>▪ Balanced current supply</li> <li>▪ Lower price</li> </ul>	<ul style="list-style-type: none"> <li>▪ Higher price</li> <li>▪ Independent C.C. output, balanced current in each string</li> <li>▪ Additional mounting space for LDD is required</li> </ul>

► Please refer to <http://www.meanwell.com/product/led/led.html> for more information.

## DC/DC Constant Current LED Driver



- Constant current LED driver
- Wide input and output voltage range
- High efficiency up to 97%
- Comply with EN55015 and FCC part 15 without additional input filter and capacitors
- Built-in PWM dimming control
- Protections: Short circuit / Over temp.
- Compact size
- Operating temperature range: -40~+85°C
- Cooling by free air convection
- Fully enclosed plastic case (UL 94V-0)
- Low cost, high reliability
- 3 years warranty

Model No.	Input (VDC)	Output		Io Tol.	Effi.
		Voltage (VDC)	Current (mA)		
LDD-300L	9~36	2~32	300	±5%	95%
LDD-350L	9~36	2~32	350	±5%	95%
LDD-500L	9~36	2~32	500	±5%	95%
LDD-600L	9~36	2~32	600	±5%	95%
LDD-700L	9~36	2~32	700	±5%	95%
LDD-300H	9~56	2~52	300	±5%	97%
LDD-350H	9~56	2~52	350	±5%	97%
LDD-500H	9~56	2~52	500	±5%	97%
LDD-600H	9~56	2~52	600	±5%	97%
LDD-700H	9~56	2~52	700	±5%	97%
LDD-1000H	9~56	2~52	1000	±5%	97%

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

## 20kA Surge Protection Device



- Type 2 component assemblies
- Line to Ground & Line to Line protected
- Design refer to UL1449 3rd Edition
- Parallel (3 wires) connection style
- LED status indicator
- IP67 design
- Suitable for surge protection of LED drivers

Model No.	SPD-20-240P
Operating voltage	240VAC, 50/60Hz
MCOV (Max. Continuous Operating Voltage)	300VAC
IN (Nominal Discharge Current)	5kA
Max. Surge Current (8/20us)	20kA
SCCR (Short Circuit Current Rating)	5kA
Response time	<25ns
Withstand Voltage	1600VAC, 1 minute
Operating temperature	-40~+70°C
Safety standard	Design refer to UL1449 3rd edition (Type 2 component assemblies), IEC61643