



## ■ Features :

- 180~295VAC input range
- Multiple channel with constant current output
- Meet 4KV surge immunity level(EN61000-4-5)
- Protections: Short circuit / Over voltage / Over temperature
- Built-in active PFC function
- Cooling by free air convection
- IP67 design for indoor or outdoor installations
- Optional timer dimming function
- High efficiency up to 88%
- -40°C can power on
- Suitable for LED lighting and moving sign applications
- 3 years warranty

 IP67  CE

 LDV-185-350A  Blank : IP67 rated. No timer dimming function.

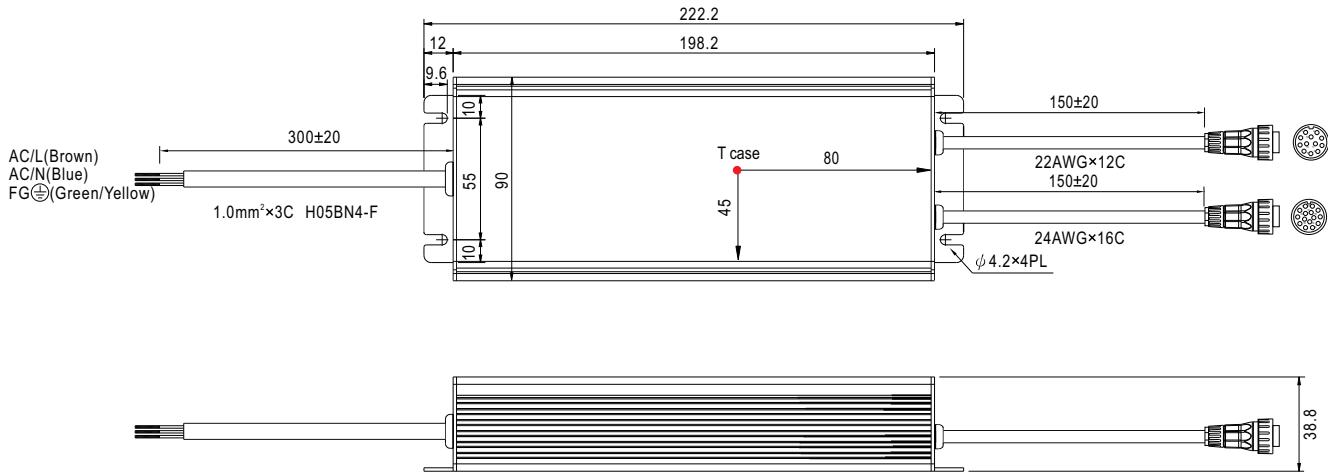
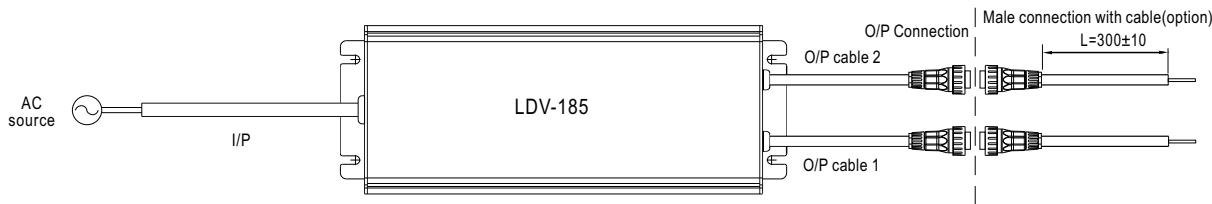
D(option): IP67 rated. Built-in timer dimming function, contact MEAN WELL for details.

## SPECIFICATION

MODEL	LDV-185-350A <input type="checkbox"/>	LDV-185-350B <input type="checkbox"/>	LDV-185-350C <input type="checkbox"/>	LDV-185-700A <input type="checkbox"/>	LDV-185-700B <input type="checkbox"/>	LDV-185-700C <input type="checkbox"/>
OUTPUT	SINGELE CHANNEL RATED CURRENT	350mA	350mA	350mA	700mA	700mA
	DC VOLTAGE RANGE Note 5.	30 ~ 35V	35 ~ 40V	40 ~ 48V	30~35V	35~40V
	RATED POWER(max.) Note 3.	147W	168W	185W	147W	168W
	MAX CHANNEL Note 3.	12CH	12CH	12CH	6CH	6CH
	SETUP, RISE TIME Note 2.	2500ms, 50ms				
	HOLD UP TIME	10ms / 230VAC				
INPUT	CONSTANT CURRENT ACCURACY	±5%				
	VOLTAGE RANGE	180~ 295VAC				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR	PF>0.95/230VAC	PF>0.92/277VAC at full load (please refer to "Power Factor Characteristic" Curve)			
	EFFICIENCY (Typ.) Note 4.	≥88%				
	AC CURRENT	1.5A/230VAC	1.0A/277VAC			
	INRUSH CURRENT(max.)	COLD START 60A/230VAC				
PROTECTION	LEAKAGE CURRENT	<0.75mA / 240VAC				
	SHORT CIRCUIT	Channel shut down when each channel fault, re-power on to recovery				
	OVER VOLTAGE	41 ~ 50V	47 ~ 50V	54 ~ 63V	41~50V	47~50V
		Protection type : Shut down o/p voltage with auto-recovery or re-power on to recovery				
	OVER TEMPERATURE	100°C±10°C(RTH2)	Protection type : Shut down o/p voltage, recovers automatically after temperature goes down			
ENVIRONMENT	OTP DIMMING	When the NTC (RTH3) temperature is higher than 90°C±10°C, PSU will enter dimming mode with decreasing output current				
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating curve" ), -40°C can power on				
	WORKING HUMIDITY	20 ~ 95% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)				
SAFETY & EMC	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes				
	SAFETY STANDARDS	IP67 approved; Design refer to EN61347-1, EN61347-2-13, UL8750				
	WITHSTAND VOLTAGE	I/P-O/P: 3.75KVAC I/P-FG: 1.88KVAC O/P-FG: 0.5KVAC 1minute				
	ISOLATION RESISTANCE	I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH				
	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C (≥75% load) ; EN61000-3-3				
OTHERS	EMC IMMUNITY	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547, EN55024, light industry level (surge 4KV), criteria A				
	MTBF	198.2Khrs min. MIL-HDBK-217F (25°C)				
	DIMENSION	222.2*90*38.8mm (L*W*H)				
NOTE	PACKING	1.27 Kg; 12pcs/16.2Kg/1.02CUFT				
		1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. 3. Please do not exceed the rated power when choosing channel quantity and voltage range(350C/700C model). 4. Efficiency is measured under 230VAC input with $P_{out}>120W$ and each output channel connecting with the same quantity of LEDs(similar $V_f$ sum). 5. DC output voltage is measured between LED <sup>B</sup>				

**■ Mechanical Specification**

Case No.LDV-185A Unit:mm


**■ WATERPROOF CONNECTION**

**NOTE: 1.Cable 1 and 2 for 350mA models, Cable 1 for 700mA models**
**2.Each channel of LED- must be isolated**
**3.Pin1~4(LED Y) & pin7~10(LED -) of cable 1 must be used when connected to LED loads , do not floating, or the PSU can't start up**
**O/P Connection(Female)**

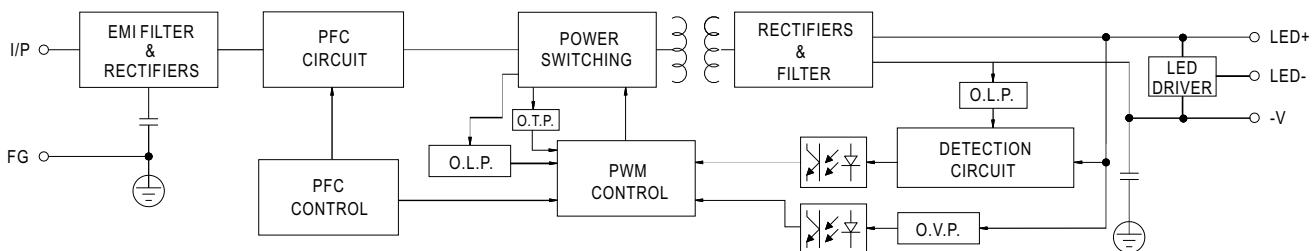
Cable	Pin Configuration(female)	Pin	Pin definition
Cable 1		15Pin	1~6 LED Y
			7~12 LED - for each channel
			13~14 NC
			15 V
Cable 2		12Pin	1~6 LED Y
			7~12 LED - for each channel

**Male Waterproof Output Connector With Cable**

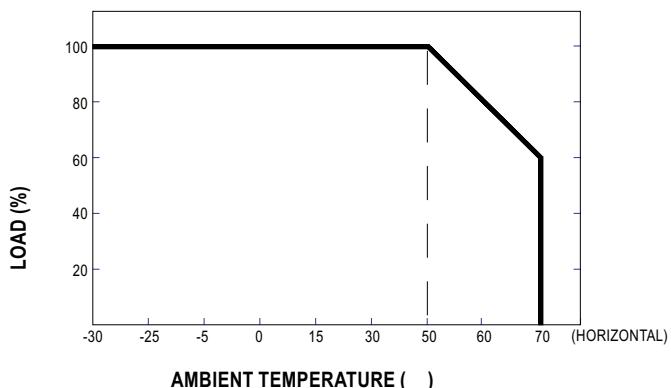
Order NO.	Pin Configuration(male)	Pin Definition	Wire Color	Wire Stock
DS-LDV185-OPA		1	BLUE	24AWG*16C
		2	PURPLE	
		3	ORANGE	
		4	YELLOW	
		5	RED	
		6	WHITE	
		7	WHITE/RED	
		8	BROWN	
		9	WHITE/ORANGE	
		10	GRAY	
		11	CLEAR LUCITE/BLUE	
		12	CLEAR LUCITE/PURPLE	
		13	NC	
		14		
		15	WHITE/YELLOW	
DS-LDV185-OPB		1	GRAY	22AWG*12C
		2	BLUE	
		3	YELLOW/GREEN	
		4	ORANGE	
		5	YELLOW	
		6	PURPLE	
		7	CLEAR LUCITE	
		8	WHITE/BLACK	
		9	BLACK	
		10	GREEN	
		11	RED	
		12	WHITE	

**\*MEAN WELL offers male waterproof connectors with cable length of 300mm as our standard mating accessories, Power Supply unit and mating accessory should be ordered separately.**

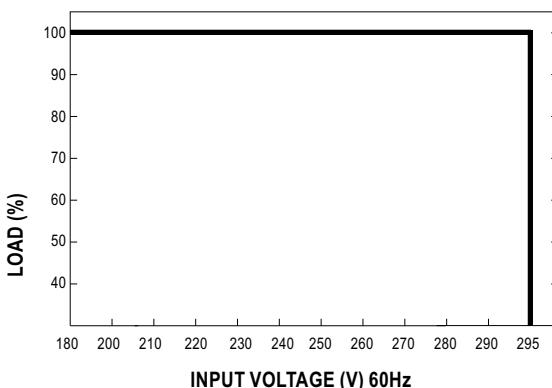
## ■ Block Diagram



## ■ Derating Curve



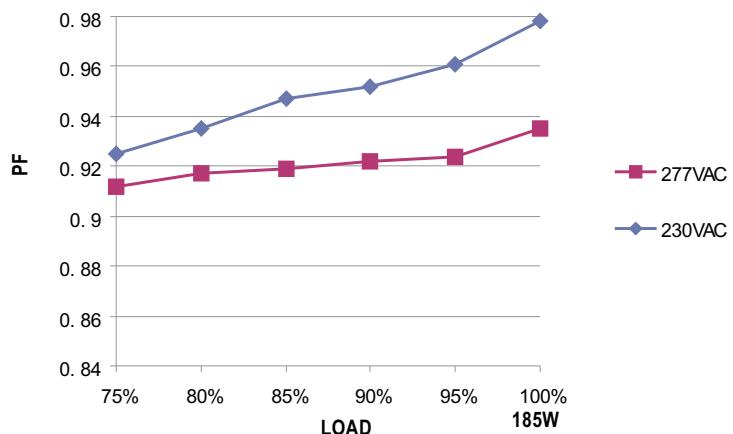
## ■ Static Characteristics



## ■ Power Factor Characteristic

Power factor will be higher than 0.9 when output loading is 75% or higher.

## Constant Current Mode



## ■ EFFICIENCY vs LOAD (350C Model)

