



■ 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



LDV-185-350A(Standard): IP67 rated. No timer dimming function.

LDV-185-350AD(Optional): IP67 rated. Built-in timer dimming function, contact MEAN WELL for details.

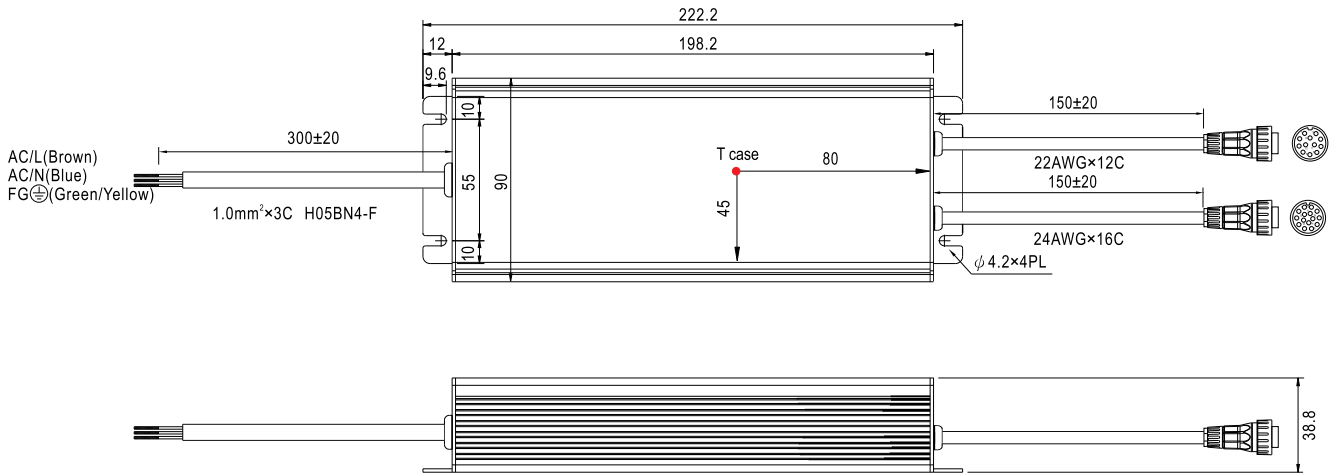
LDV-185-350A-CA(Optional): Including PSU mating accessory (male waterproof connector with cable), contact MEAN WELL for details.

SPECIFICATION

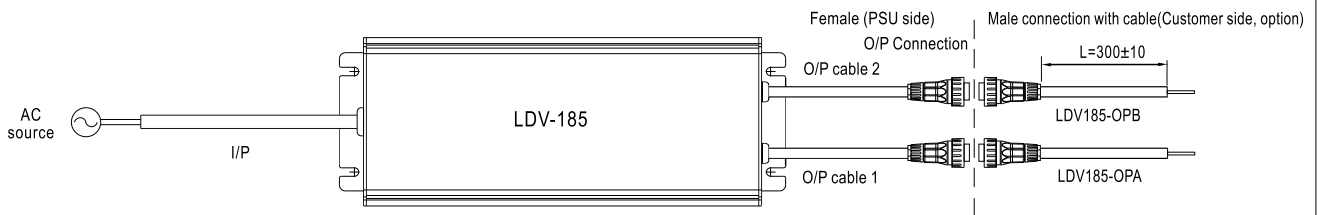
MODEL		LDV-185-350A	LDV-185-350B	LDV-185-350C	LDV-185-700A	LDV-185-700B	LDV-185-700C	
OUTPUT	SINGLE CHANNEL RATED CURRENT	350mA	350mA	350mA	700mA	700mA	700mA	
	DC VOLTAGE RANGE <small>Note 5.</small>	30 ~ 35V	35 ~ 40V	40 ~ 48V	30~35V	35~40V	40~48V	
	RATED POWER(max.) <small>Note 3.</small>	147W	168W	185W	147W	168W	185W	
	MAX CHANNEL <small>Note 3.</small>	12CH	12CH	12CH	6CH	6CH	6CH	
	SETUP, RISE TIME <small>Note 2.</small>	2500ms, 50ms						
	HOLD UP TIME	10ms / 230VAC						
CONSTANT CURRENT ACCURACY		±5%						
INPUT	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.) <small>Note 4.</small>	≥88%						
	AC CURRENT	1.5A/230VAC 1.0A/277VAC						
	INRUSH CURRENT(max.)	COLD START 60A/230VAC						
	LEAKAGE CURRENT	<0.75mA / 240VAC						
PROTECTION	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	54~63V	
	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						
OTP DIMMING		When the NTC (RTH3) temperature is higher than 90°C±10°C, PSU will enter dimming mode with decreasing output current						
ENVIRONMENT	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)						
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes						
SAFETY & EMC	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						
EMC IMMUNITY		Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, EN55024, light industry level (surge 4KV), criteria A						
OTHERS	MTBF	198.2Khrs min. MIL-HDBK-217F (25°C)						
	DIMENSION	222.2*90*38.8mm (L*W*H)						
	PACKING	1.27 Kg; 12pcs/16.2Kg/1.02CUFT						
NOTE		<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>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.</p> <p>3. Please do not exceed the rated power when choosing channel quantity and voltage range(350C/700C model).</p> <p>4. Efficiency is measured under 230VAC input with Pout>120W and each output channel connecting with the same quantity of LEDs(similar Vf sum).</p> <p>5. DC output voltage is measured between LED+ ~ LED-.</p> <p>6. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-quality EMC Directive on the complete installation again.</p>						

Mechanical Specification

Case No.209A 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 +) & 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)

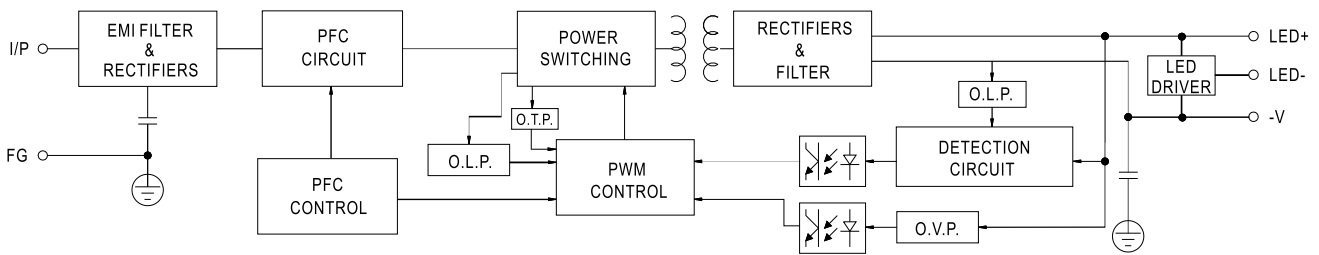
Cable	Pin Configuration(female)	Pin	Pin definition
Cable 1		1~6	LED+
		7~12	LED- for each channel
		13~14	NC
		15	-V
Cable 2		1~6	LED+
		7~12	LED- for each channel

Male Waterproof Output Connector With Cable(Customer side,optional)

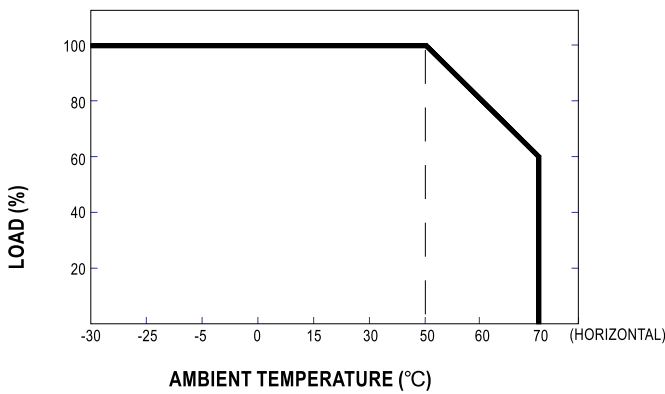
Pin Configuration(male)	Pin Definition	Wire Color	Wire Stock	
LDV185-OPA 	1	LED+	BLUE	24AWG*16C
	2	LED+	PURPLE	
	3	LED+	ORANGE	
	4	LED+	YELLOW	
	5	LED+	RED	
	6	LED+	WHITE	
	7	LED-	WHITE/RED	24AWG*16C
	8	LED-	BROWN	
	9	LED-	WHITE/ORANGE	
	10	LED-	GRAY	
	11	LED-	CLEAR LUCITE/BLUE	22AWG*12C
	12	LED-	CLEAR LUCITE/PURPLE	
	13	NC		22AWG*12C
	14	NC		
	15	-V	WHITE/YELLOW	
LDV185-OPB 	1	LED+	GRAY	22AWG*12C
	2	LED+	BLUE	
	3	LED+	YELLOW/GREEN	
	4	LED+	ORANGE	
	5	LED+	YELLOW	
	6	LED+	PURPLE	
	7	LED-	CLEAR LUCITE	22AWG*12C
	8	LED-	WHITE/BLACK	
	9	LED-	BLACK	
	10	LED-	GREEN	
	11	LED-	RED	
	12	LED-	WHITE	

※MEAN WELL offers male waterproof connectors with cable length of 300mm as our standard mating accessories. This mating accessory needs to be ordered together with LDV-185, please consult MEAN WELL for details.

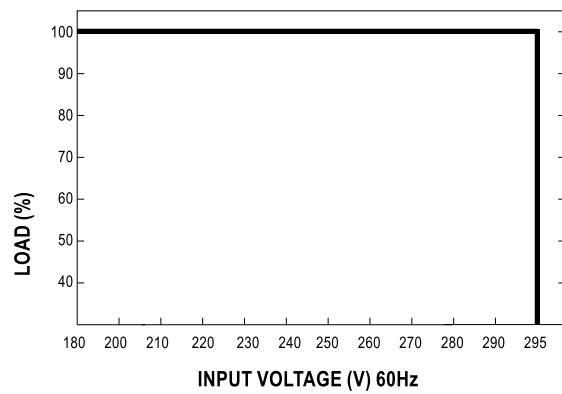
■ **Block Diagram**



■ **Derating Curve**



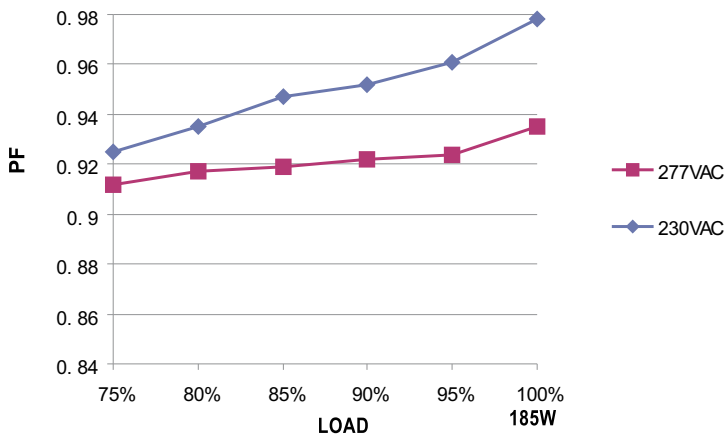
■ **Static Characteristics**



■ **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)**

