

185W Multiple Channel Output Switching Power Supply **LDV-185** series



■ Features :

- 180~295VAC input range
- Multiple channel with constant current output
- Meet 4KV surge immunity level(EN61000-4-5)
- Protections: Short circuit / Overload / 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 Blank : IP67 rated. No timer dimming function.
 D(option): IP67 rated. Built-in timer dimming function, contact MEAN WELL for details.

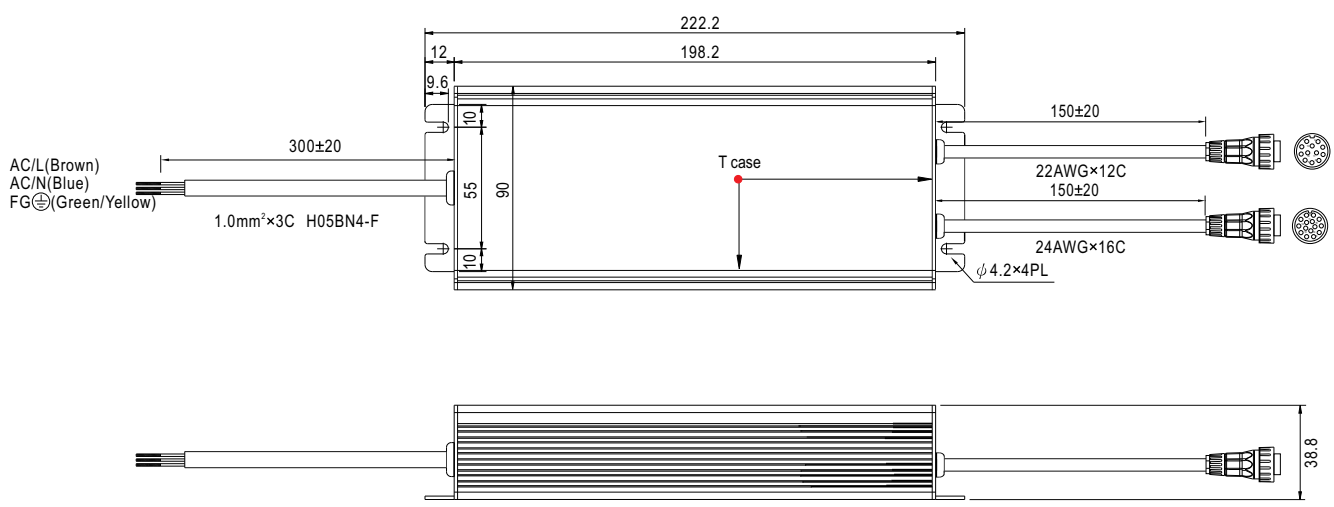
SPECIFICATION

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	SINGLE CHANNEL RATED CURRENT	350mA	350mA	350mA	700mA	700mA	700mA	
	DC VOLTAGE RANGE	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	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 Pout>120W and each output channel connecting with the same quantity of LEDs(similar Vf sum). 5. 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-qualify EMC Directive on the complete installation again.							

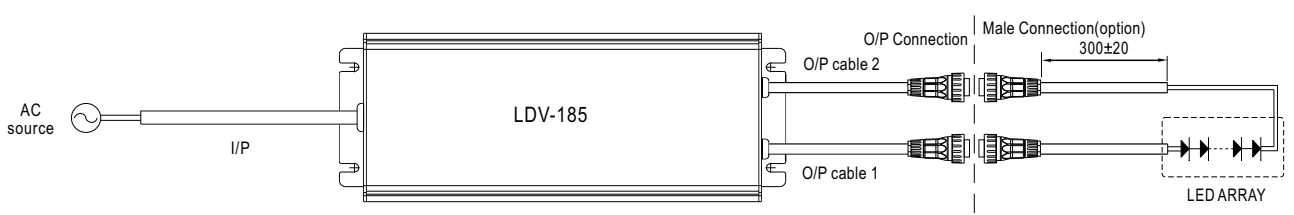
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■ Mechanical Specification

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. pin7-10 of Cable 1 must be connected and do not floating, or the PSU can't be start up

O/P Connection

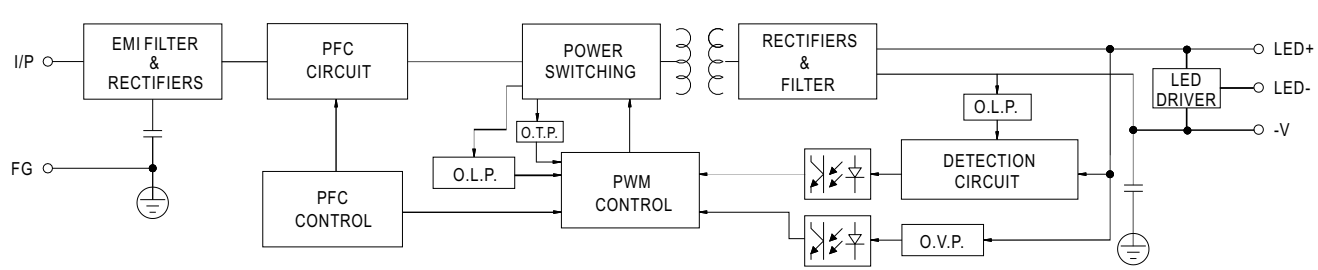
Cable	Pin Configuration(female)	Pin	Pin definition
Cable 1		15Pin	1~6 LED+
			7~12 LED- for each channel
			13~14 NC
			15 -V
Cable 2		12Pin	1~6 LED+
			7~12 LED- for each channel

Option for male connection(Contact MEAN WELL for details)

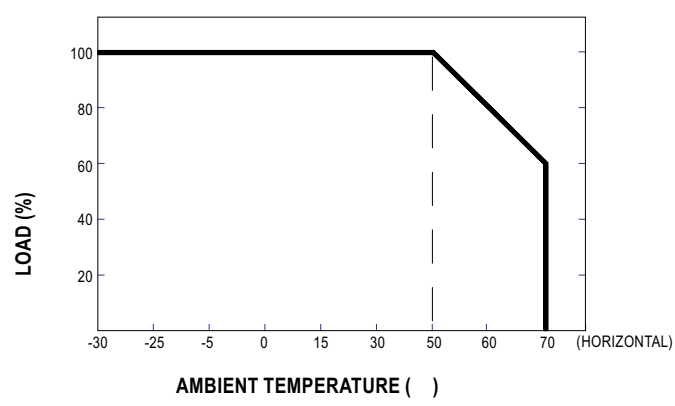
Pin Configuration(male)	Pin Definition	Wire Color	Wire Stock	
	1	LED+	BLUE	24AWG*16C
	2	LED+	PURPLE	
	3	LED+	ORANGE	
	4	LED+	YELLOW	
	5	LED+	RED	
	6	LED+	WHITE	
	7	LED-	WHITE/RED	
	8	LED-	BROWN	
	9	LED-	WHITE/ORANGE	
	10	LED-	GRAY	
	11	LED-	CLEAR LUCITE/BLUE	
	12	LED-	CLEAR LUCITE/PURPLE	
	13	NC		
	14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

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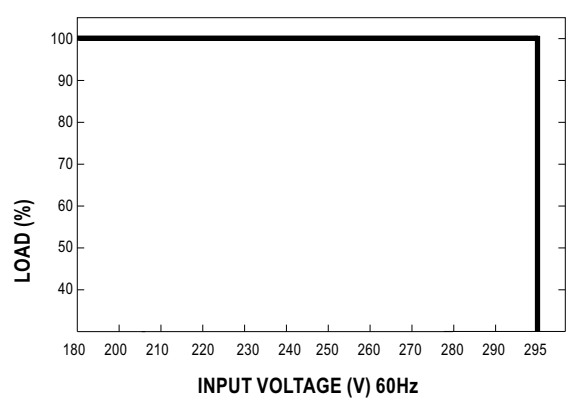
■ Block Diagram



■ Derating Curve



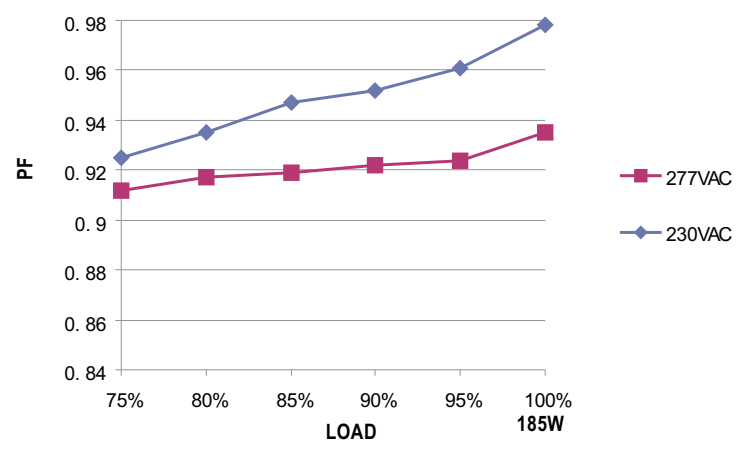
■ Static Characteristics



■ 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)

