



Наличие и актуальные цены на

**DS-LDV185-OPA**

<https://www.mean-well.ru/store/DS-LDV185-OPA/>



#### ■ 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.

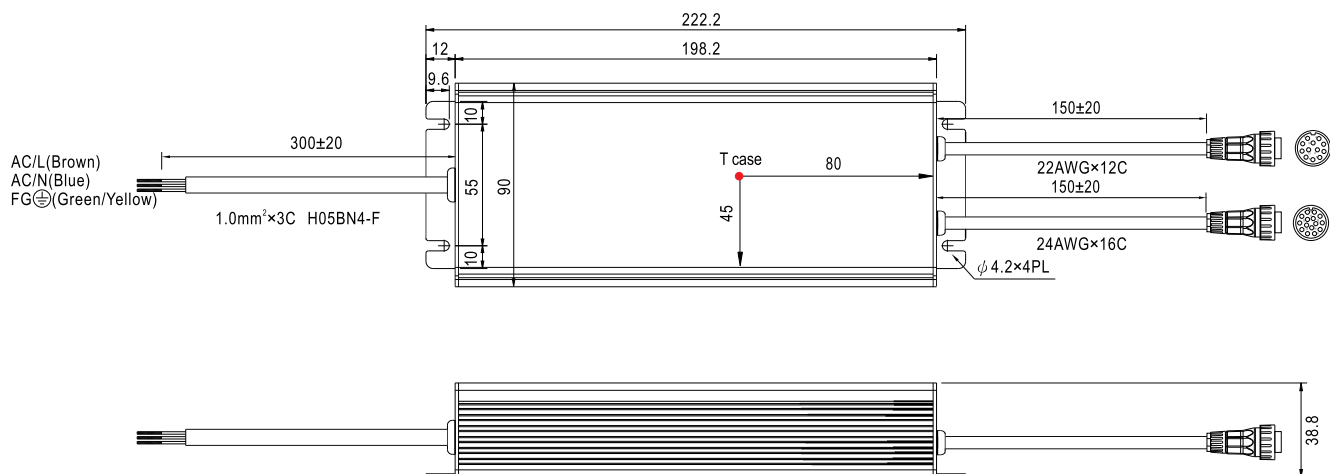
LDV-185-350A-CA(Optional): Including PSU mating accessory (male waterproof connector with cable), contact MEAN WELL for details.

### SPECIFICATION

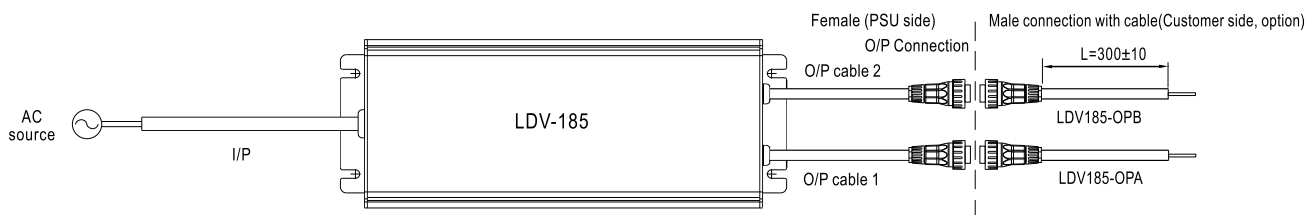
| MODEL        |                              | LDV-185-350A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 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 Note 5.     | 30 ~ 35V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 35 ~ 40V     | 40 ~ 48V     | 30~35V       | 35~40V       | 40~48V       |
|              | RATED POWER(max.) Note 3.    | 147W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 168W         | 185W         | 147W         | 168W         | 185W         |
|              | MAX CHANNEL Note 3.          | 12CH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 12CH         | 12CH         | 6CH          | 6CH          | 6CH          |
|              | SETUP, RISE TIME Note 2.     | 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.) Note 4.    | ≥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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |              |              |              |              |
| 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |              |              |              |              |
|              | 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&gt;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-qualify EMC Directive on the complete installation again.</p> |              |              |              |              |              |

## Mechanical Specification

Case No.209A Unit:mm

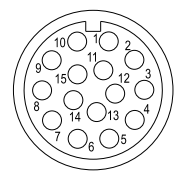
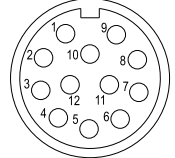


## WATERPROOF CONNECTION

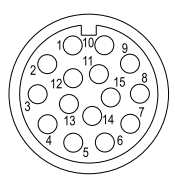
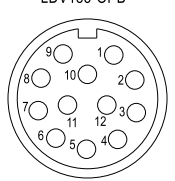


- NOTE:** 1.Cable 1 and 2 for 350mA models, Cable 1 for 700mA models  
2.Each channel of LED- must be isolated  
3.Pin1~4(LED + ) & pin7~10(LED - ) of cable 1 must be used when connected to LED loads , do not floating, or the PSU can't start up

### O/P Connection(Female)

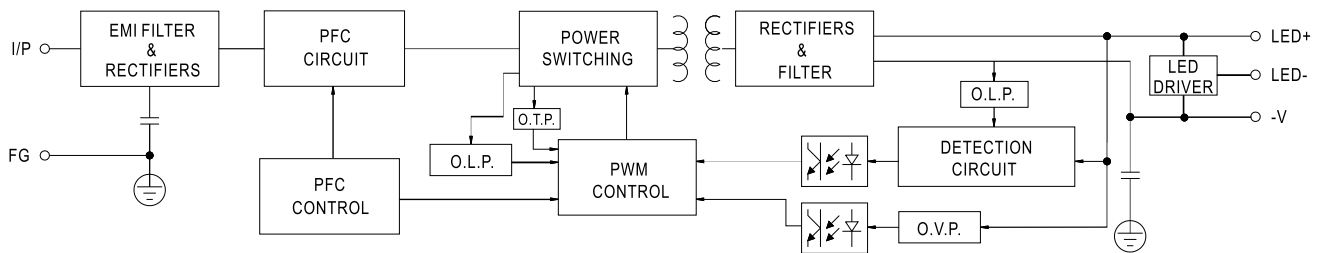
| Cable   | Pin Configuration(female)                                                           | Pin   | Pin definition        |
|---------|-------------------------------------------------------------------------------------|-------|-----------------------|
| Cable 1 |  | 1~6   | LED+                  |
|         |                                                                                     | 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)

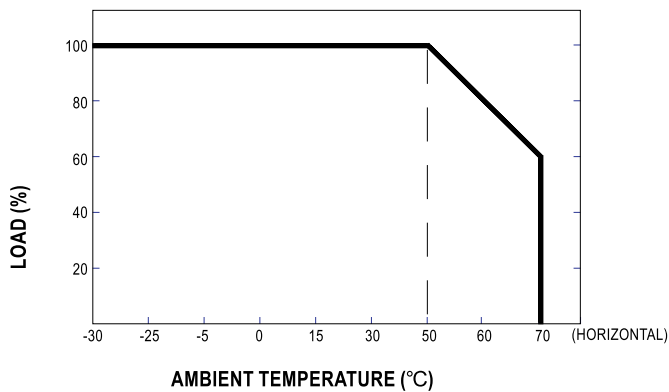
| Pin Configuration(male)                                                                           | Pin Definition | Wire Color          | Wire Stock |
|---------------------------------------------------------------------------------------------------|----------------|---------------------|------------|
| LDV185-OPA<br> | 1              | BLUE                | 24AWG*16C  |
|                                                                                                   | 2              | PURPLE              |            |
|                                                                                                   | 3              | ORANGE              |            |
|                                                                                                   | 4              | YELLOW              |            |
|                                                                                                   | 5              | RED                 |            |
|                                                                                                   | 6              | WHITE               |            |
|                                                                                                   | 7              | WHITE/RED           | 24AWG*16C  |
|                                                                                                   | 8              | BROWN               |            |
|                                                                                                   | 9              | WHITE/ORANGE        |            |
|                                                                                                   | 10             | GRAY                |            |
|                                                                                                   | 11             | CLEAR LUCITE/BLUE   |            |
|                                                                                                   | 12             | CLEAR LUCITE/PURPLE |            |
|                                                                                                   | 13             | NC                  | 24AWG*16C  |
|                                                                                                   | 14             | -V                  |            |
|                                                                                                   | 15             | WHITE/YELLOW        |            |
| LDV185-OPB<br> | 1              | GRAY                | 22AWG*12C  |
|                                                                                                   | 2              | BLUE                |            |
|                                                                                                   | 3              | YELLOW/GREEN        |            |
|                                                                                                   | 4              | ORANGE              |            |
|                                                                                                   | 5              | YELLOW              |            |
|                                                                                                   | 6              | PURPLE              |            |
|                                                                                                   | 7              | CLEAR LUCITE        | 22AWG*12C  |
|                                                                                                   | 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, This mating accessory needs to be ordered together with LDV-185, please consult MEAN WELL for details.

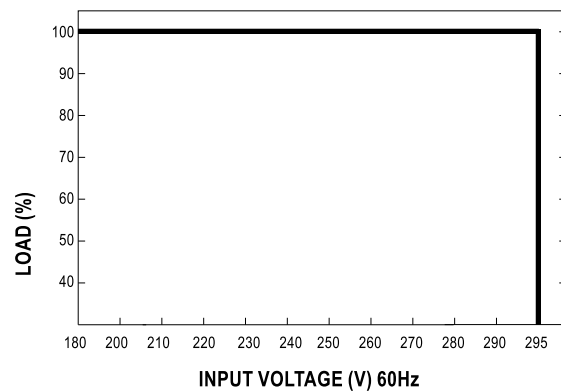
### Block Diagram



### Derating Curve



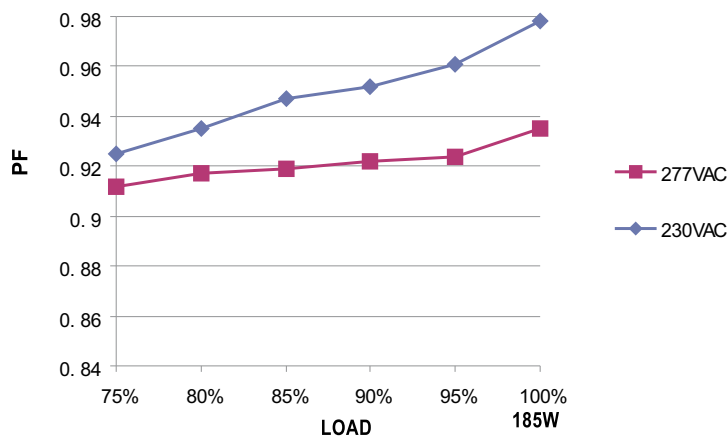
### Static Characteristics



### 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)

