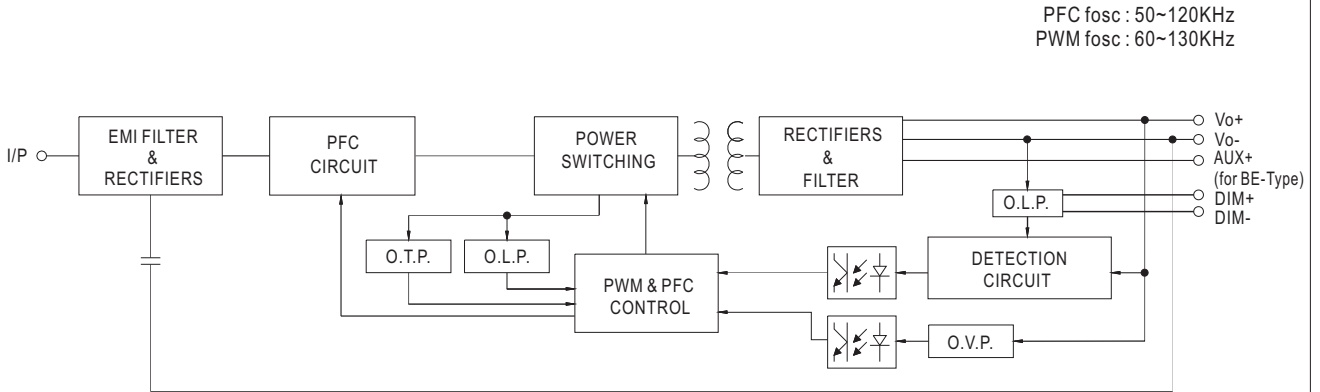
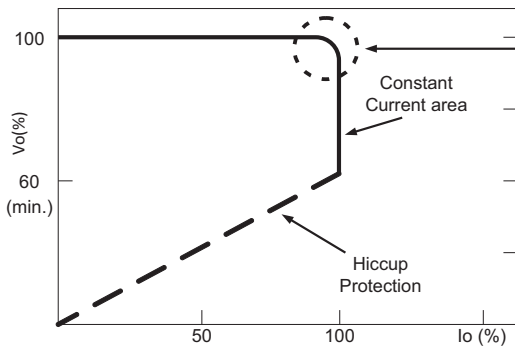


■ BLOCK DIAGRAM



■ DRIVING METHODS OF LED MODULE

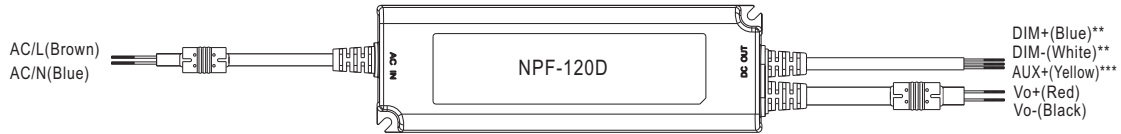
※ This series works in constant current mode to directly drive the LEDs.



Typical LED power supply I-V curve

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.
Should there be any compatibility issues, please contact MEAN WELL.

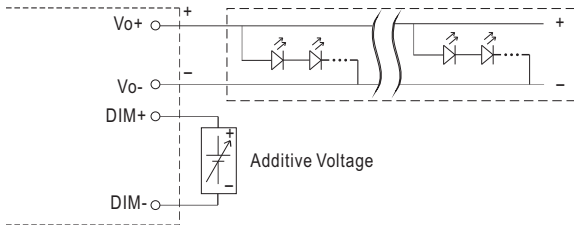
■ DIMMING OPERATION



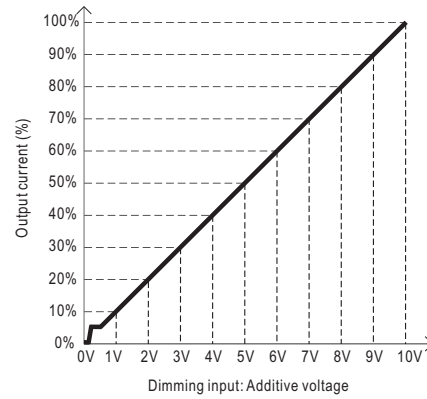
** For wire diameters, please refer to Mechanical Specification

※ **3 in 1 dimming function**

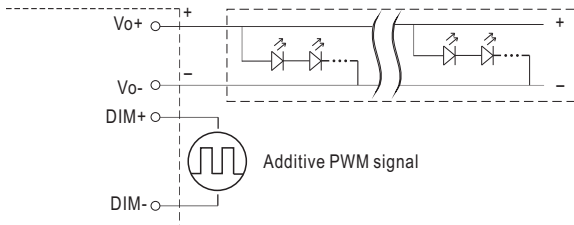
- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-: 0 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100μA (typ.)
- ◎ Applying additive 0 ~ 10VDC



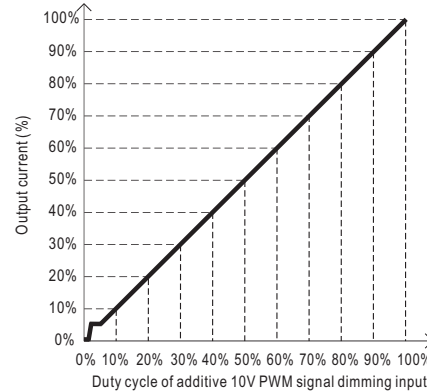
"DO NOT connect "DIM- to Vo-"



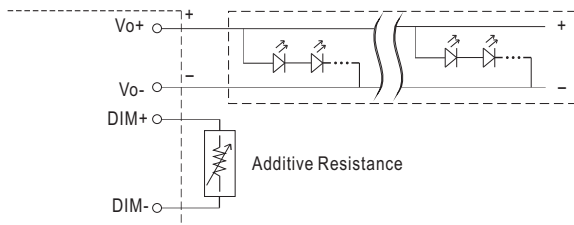
- ◎ Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):



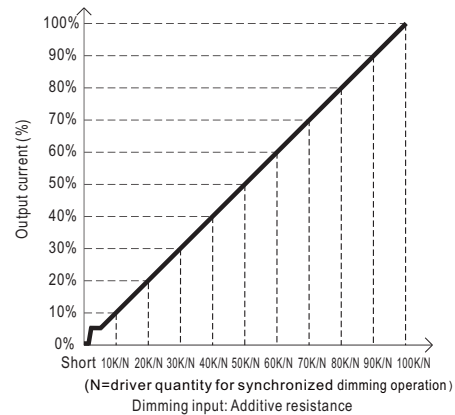
"DO NOT connect "DIM- to Vo-"



- ◎ Applying additive resistance:



"DO NOT connect "DIM- to Vo-"

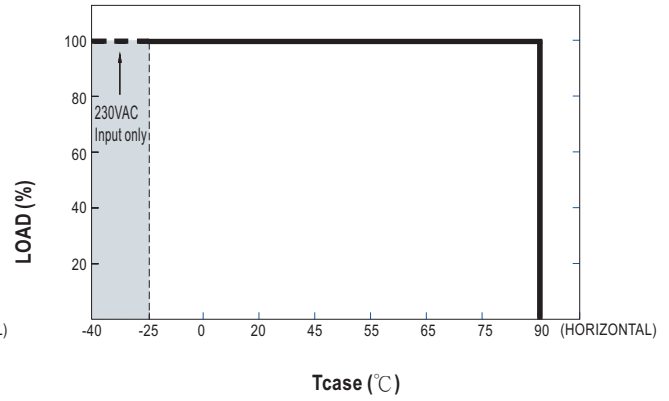
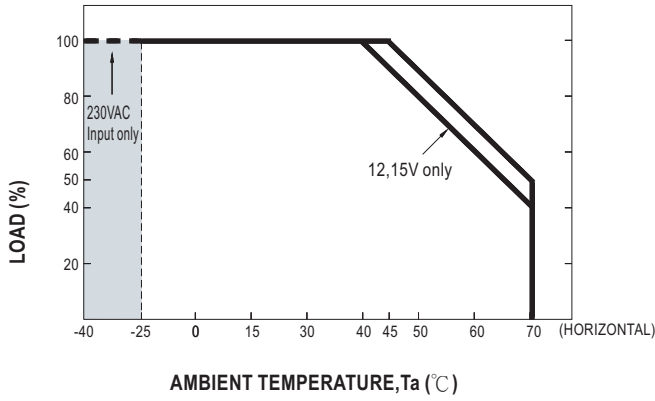


Note : 1. Min. dimming level is about 6% and the output current is not defined when 0% < Iout < 6%.
 2. The output current could drop down to 0% when dimming input is about 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle.

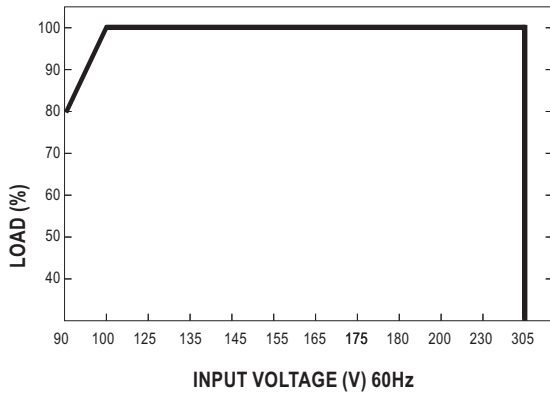
※ Auxiliary DC operation (for BE-type)

- AUX+, with mark ***, is added for BE-Type, used as the Auxiliary DC output with respect to DIM-.

OUTPUT LOAD vs TEMPERATURE



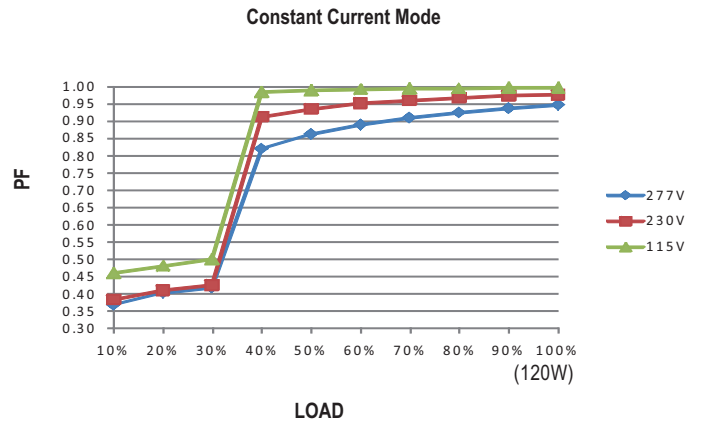
STATIC CHARACTERISTIC



※ De-rating is needed under low input voltage.

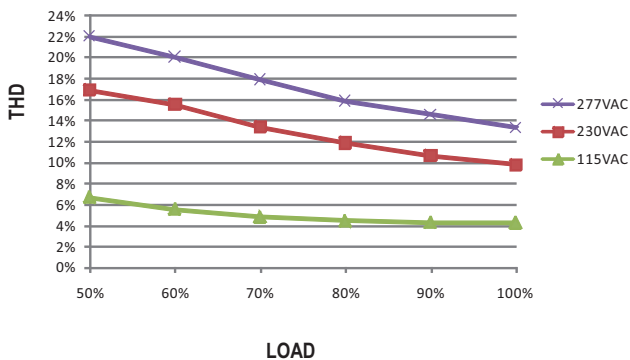
POWER FACTOR (PF) CHARACTERISTIC

※ Tcase at 80°C



TOTAL HARMONIC DISTORTION (THD)

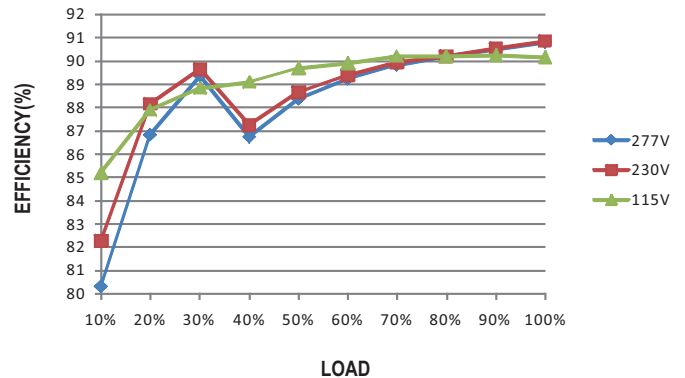
※ 48V Blank-Type Model, Tcase at 80°C



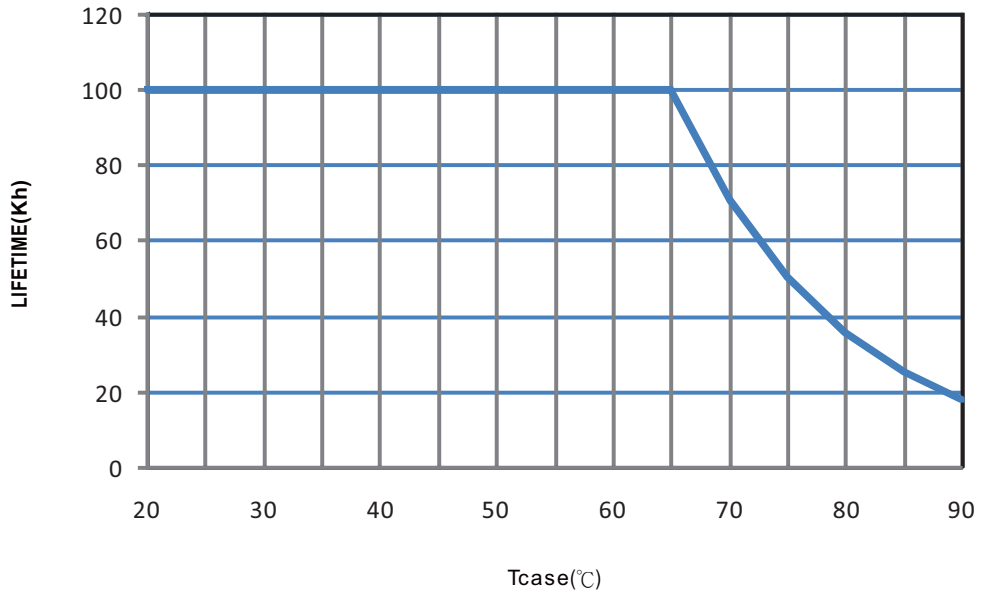
EFFICIENCY vs LOAD

NPF-120D series possess superior working efficiency that up to 90% can be reached in field applications.

※ 48V Blank-Type Model, Tcase at 80°C



■ LIFE TIME

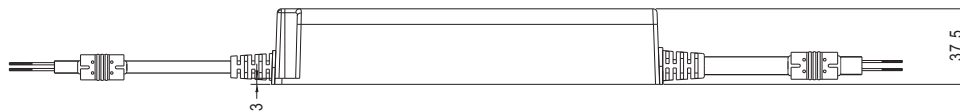
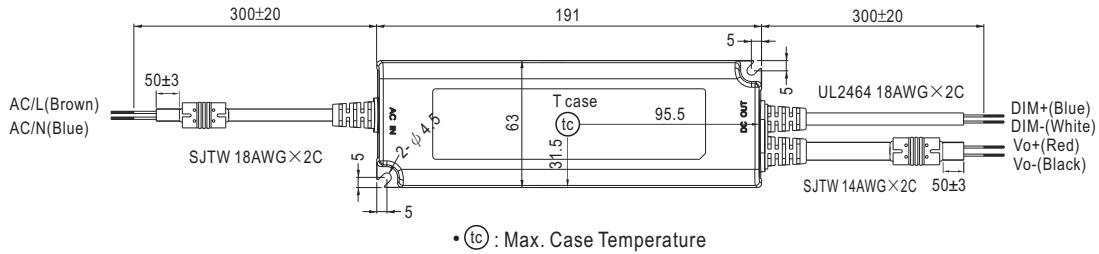


MECHANICAL SPECIFICATION

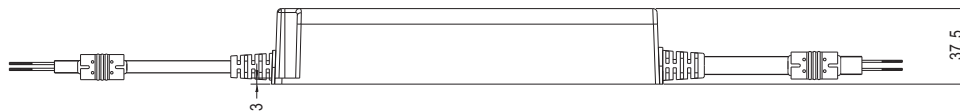
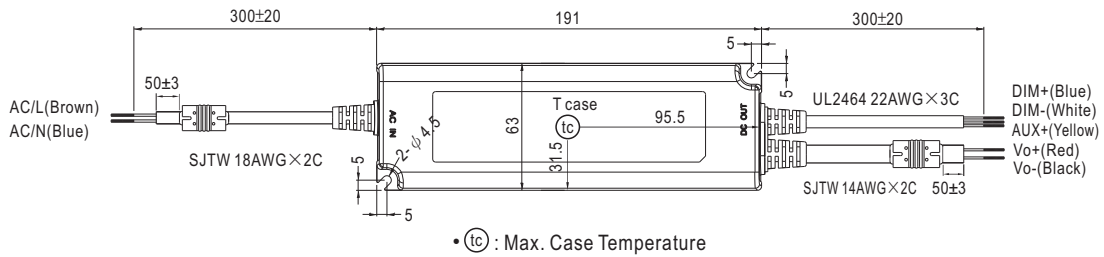
Case No. PWM-120

Unit:mm

※ **Blank-Type**



※ **BE-Type**



INSTALLATION MANUAL

Please refer to: <http://www.meanwell.com/manual.html>