

■ Features:

- Universal AC input/Full rang 90~305VAC
- Built-in active PFC function
- Protections: Short circuit/Over current /Overvoltage/Over temperature
- Cooling by free air convection
- Built-in 3 in 1 dimming function (0~10Vdc or 10V PWM signal or resistance)
- Metal case, IP65 design for indoor or outdoor installations
- Suitable for outdoor LED street lighting, outdoor LED and moving sign applications
- 5 years warranty



240H-42□ V: IP65 Level, Io adjustable through built-in potentiometer

D: IP65 Level, 3 in 1 dimming function (1~10VDC, 10V PWM signal and resistance)

SPECIFICATION

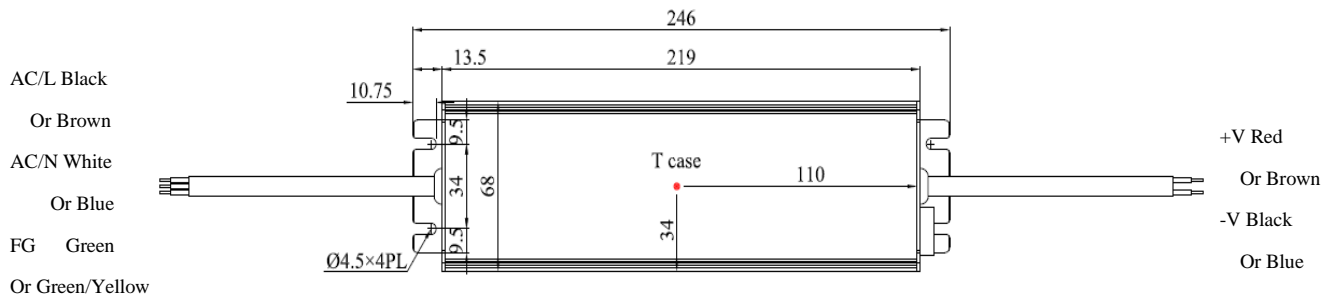
Parameter Name	Min.	Typ.	Max.	Unit
Input Voltage	100	110;230	277	Vac
Input Current	---	2.8	4	A
Power Factor	0.95	0.98	0.99	PF
Frequency Rang	47	50\60	63	Hz
Output no-load Voltage	43	46	48	Vdc
Output Serving Voltage	36	42	43	Vdc
Output Current	-3%	5.72	+3%	Adc
Overshoot	---	---	10	%
Ripple & Noise	---	---	300	mV
No Load Power	---	0.5	2	W
Efficiency	91	93	---	% (230VAC)
Over Current Protection	---	---	110	%
Over Temperature Protection	Shut down O/P voltage, recovers automatically after temperature goes down			
Short Circuit Protection	Constant Current limiting, recovers automatically after fault condition is removed (output current<2A)			

WORKING ENVIRONMENT

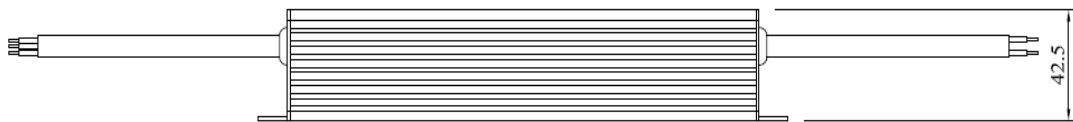
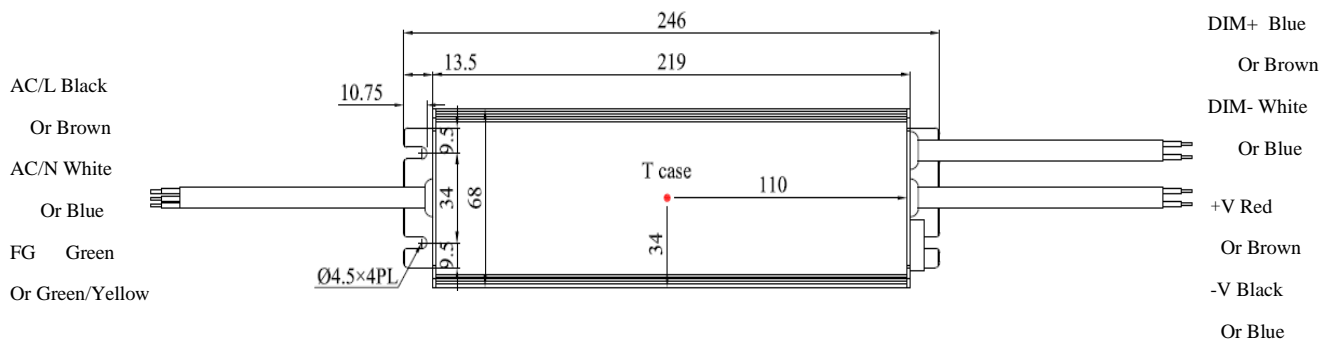
Item	Min.	Typ.	Max.	Unit
Working Temp.	-40~+70℃ (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)			
IP Rating	IP65			
MAX. Working Humidity	20~95%RH non-condensing			
Cooling Method	Cooling by free air convection, External LED Driver can improve the lifespan.			
Storage Temp. , Humidity	-40~+80℃, 10~95%RH			
Working Atmosphere	70	---	106	Kpa

SAFETY

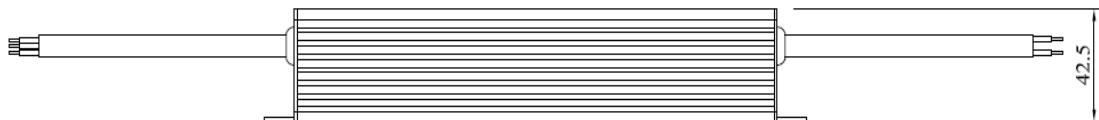
Item	Min.	Typ.	Max.	Unit
I/P-O/P	3750	---	---	V(AC)
I/P-FG	2000	---	---	V(AC)
O/P-FG	500	---	---	V(DC)
Surge: L-N	2000	---	---	V
Surge :L,N-FG	4000	---	---	V

MECHANIC SPECIFICATION
※ V-Type:(240H- 42V)


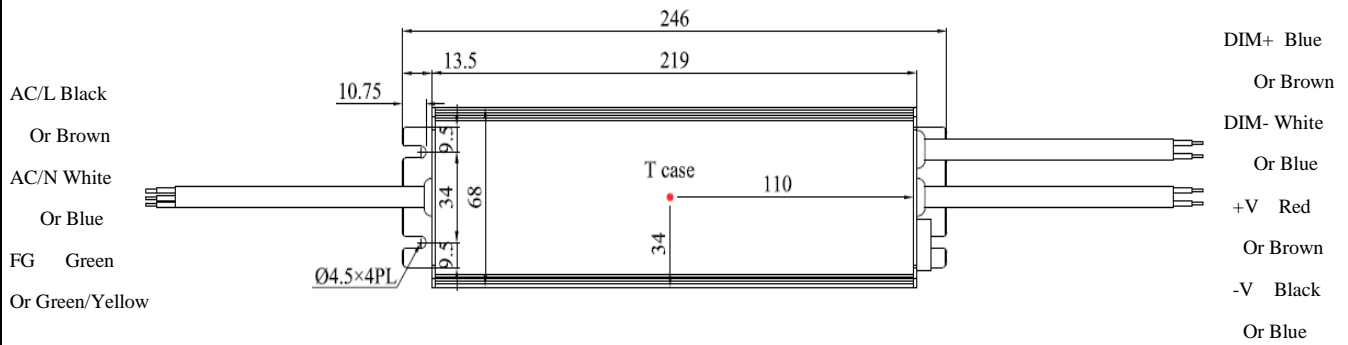
• tc: MAX. Case Temperature


※ D-Type:(240H- 42D)


• tc: MAX. Case Temperature



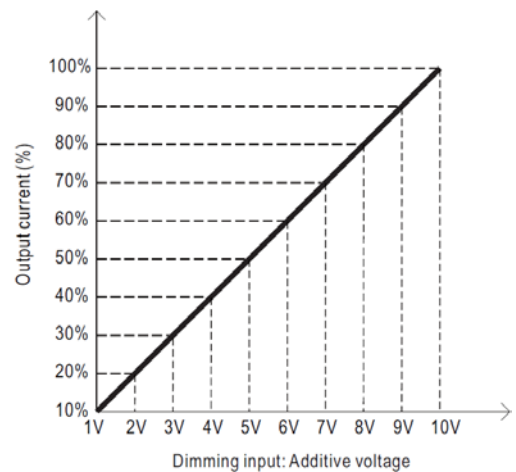
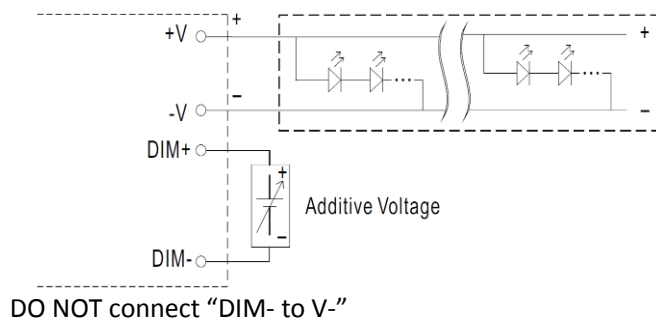
DIMMING OPERATION



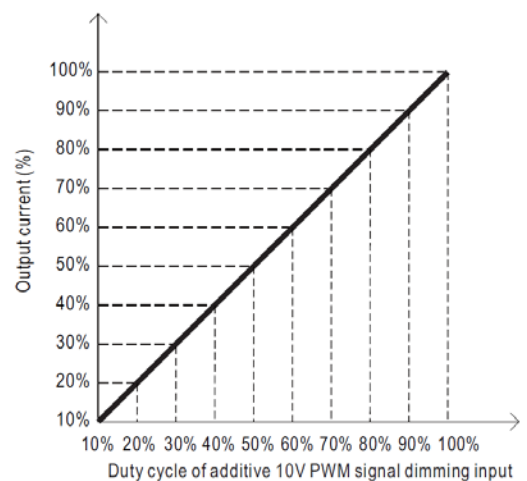
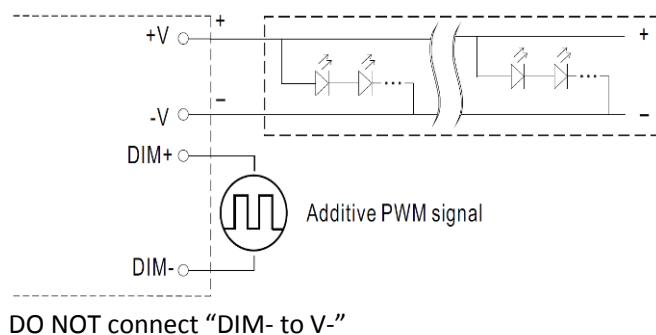
※ IP67 LEVEL, 3 in 1 dimming function(for D-Type).

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-: 1~10VDC, 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: 100uA (typ.).

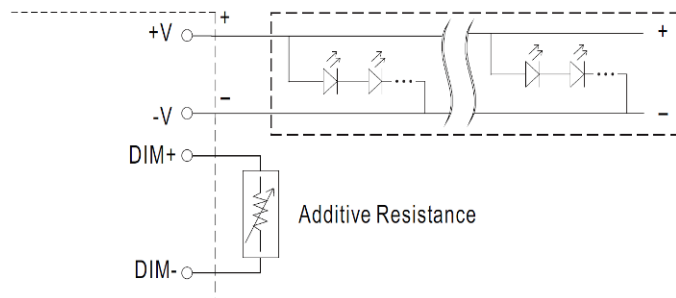
◎ Applying additive 1~10VDC



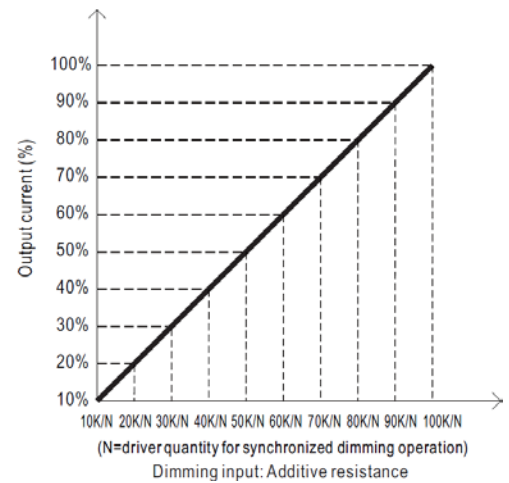
◎ Applying additive 10V PWM signal(frequency rang 100Hz~3KHz)



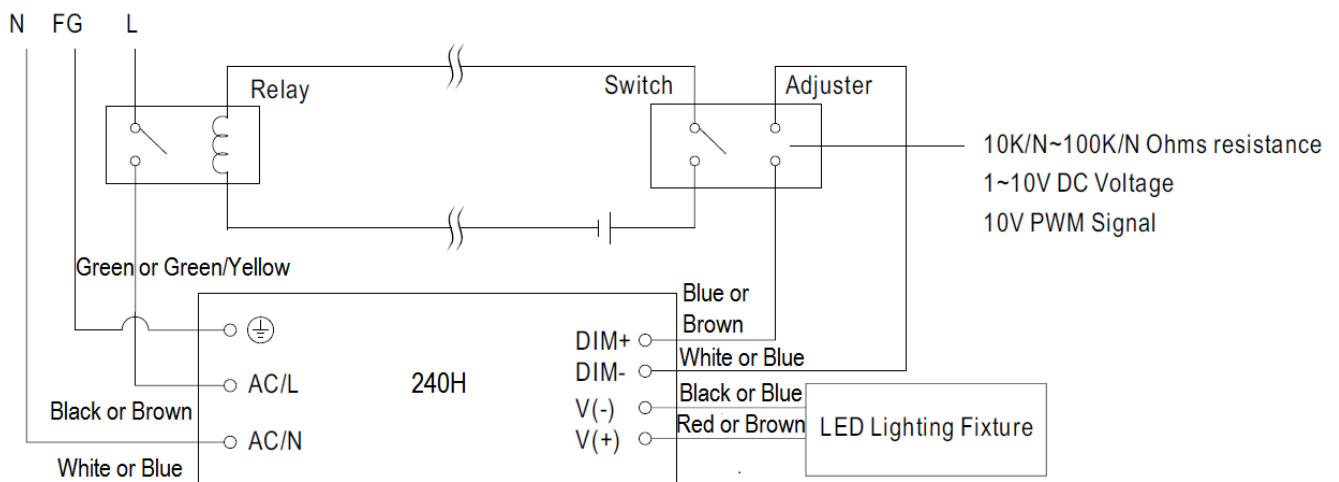
© Applying additive resistance:



DO NOT connect "DIM- to V-"

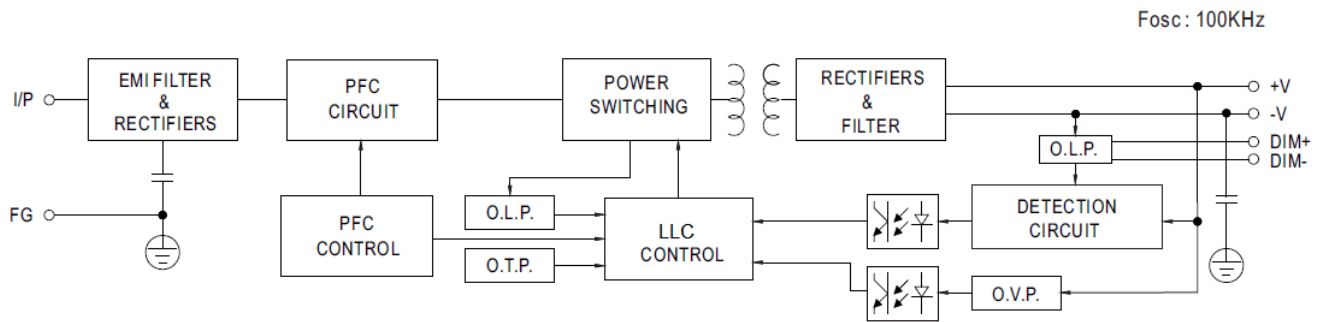


Note: In the case of turning the lighting fixture down to 0% brightness ,
please refer to the configuration as follow:

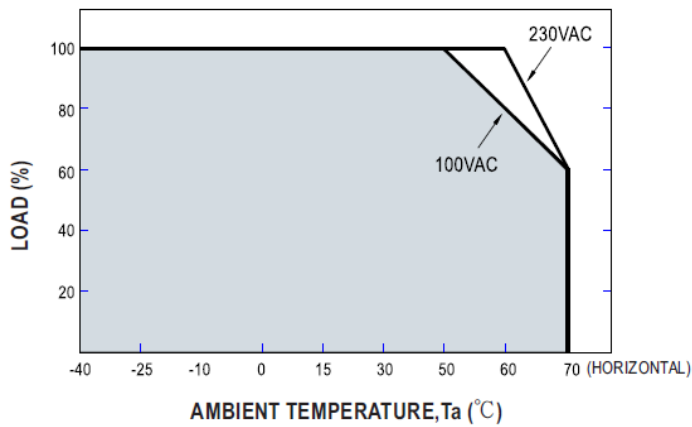


※ Using a switch and relay can turn ON/OFF the lighting fixture.

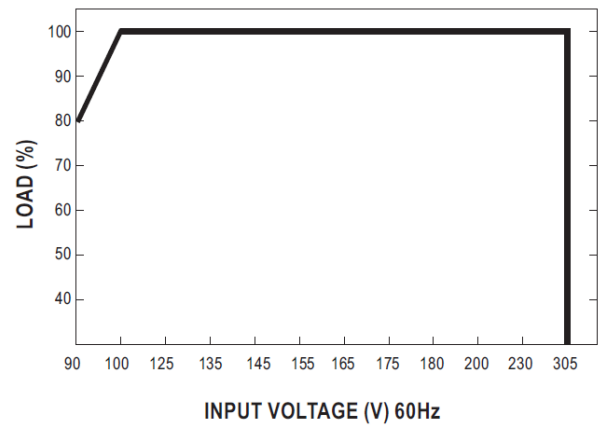
BLOCK DIAGRAM



OUTPUT LOAD vs TEMPERATURE

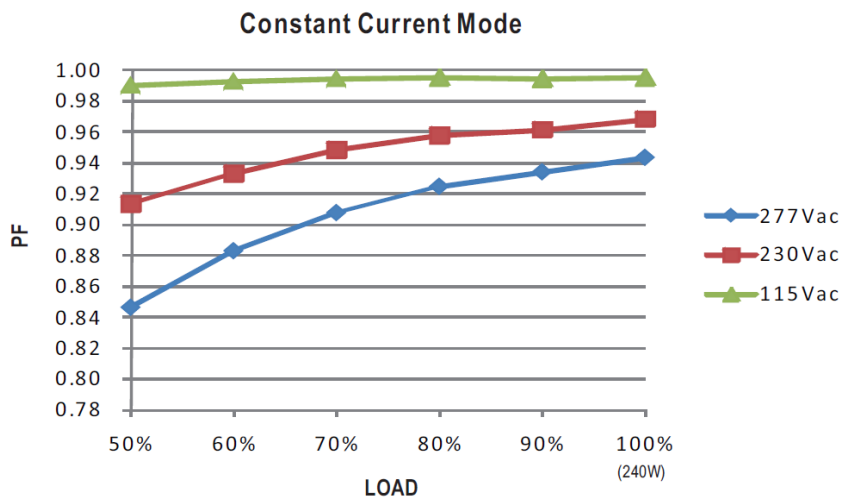


STATIC CHARACTERISTICS



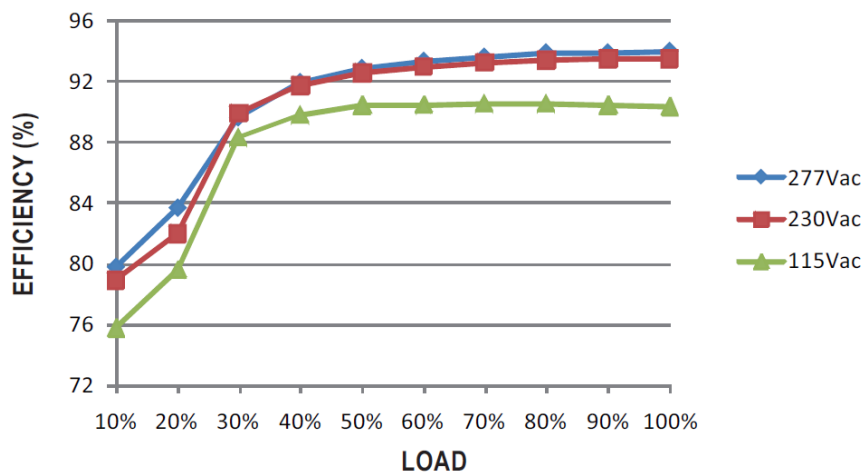
※ De-rating is needed under low input voltage.

POWER FACTOR (PF) CHARACTERISTIC



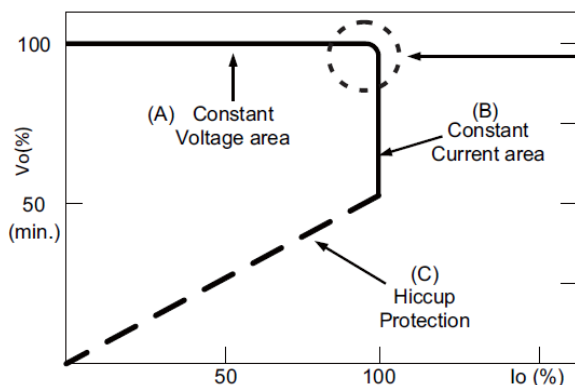
EFFICIENCY vs LOAD

120H series possess superior working efficiency that up to 91%
Can be reached in field applications.



DRIVING METHODS OF LED MODULE

※ This series is able to work in either Constant Current mode(a direct drive way) or Constant Voltage mode (usually through additional DC/DC drive) to drive the LEDs.



In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Typical output current normalized by rated current (%)