

#### **■** 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  $(0\sim10\text{Vdc} \text{ or } 10\text{V PWM signal or resistance})$
- Metal case, IP65 design for indoor or outdoor
- · Suitable for outdoor LED street lighting, outdoor LED and moving sign applications
- 5 years warranty



120H-42□ V: IP65Level, Io adjustable through built-in potentiometer

D: IP65Level, 3 in 1dimming function (1 $\sim$ 10VDC,10V PWM signal and resistance)

#### **SPECIFCATION**

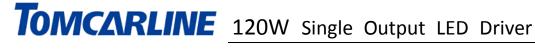
Parameter Name	Min.	Тур.	Max.	Unit	
Input Voltage	100	110;230	277	Vac	
Input Current		0.6	3	A	
Power Factor	0.95	0.98	0.99	PF	
Frequency Rang	47	50\60	63	Hz	
Output no-load Voltage	43	46	48	Vdc	
Output Serving Voltage	36	42	43	Vdc	
Output Current	-3%	2.85	+3%	Adc	
Overshoot			10	%	
Ripple & Noise			300	mV	
No Load Power		0.5	2	W	
Efficiency	88	91		% (230VAC)	
Over Current Protection			110	%	
Over Temperature	Shut down O/P voltage, recovers automatically after temperature goes down				
Protection					
Short Circuit Protection	Constant Current limiting, recovers automatically after fault condition is removed (output current<2A)				

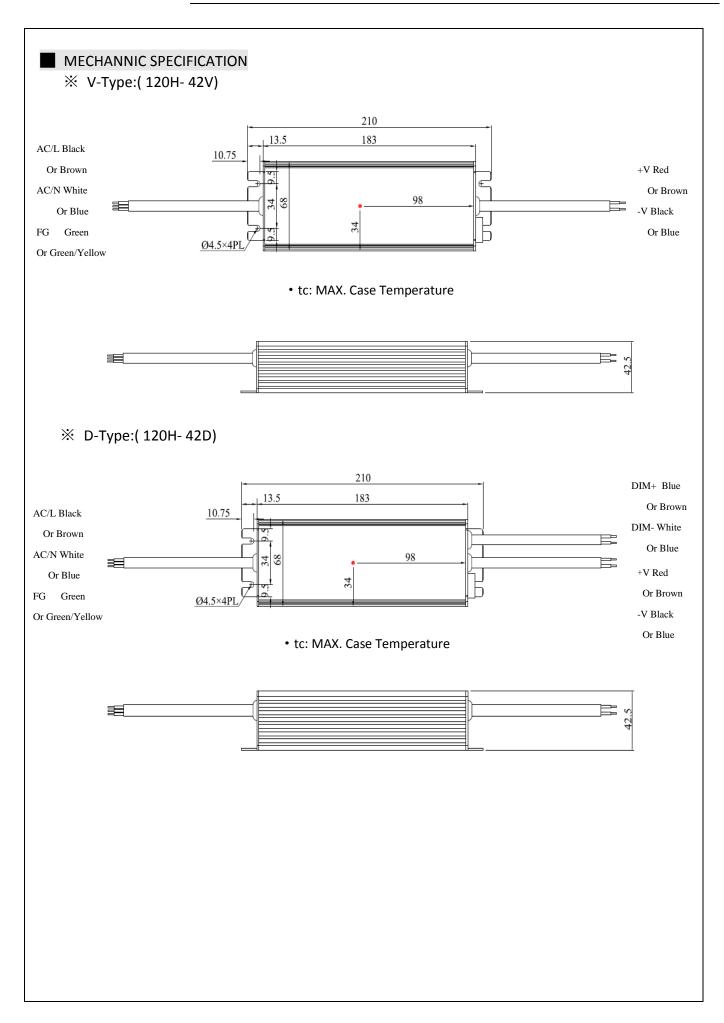
### WORKING ENVIRONMENT

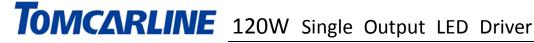
Item	Min.	Тур.	Max.	Unit
Working Temp.	-40∼+70°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)			
IP Rating	IP65			
MAX. Working Humidity	20∼95%RH non-condensing			
Cooling Method	Cooling by free air convection, External LED Driver can improve the lifespan.			
Storage Temp. , Humidity	-40∼+80℃,10∼95%RH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

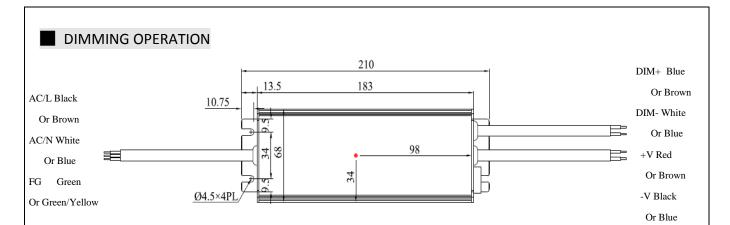
#### **SAFETY**

Item	Min.	Тур.	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

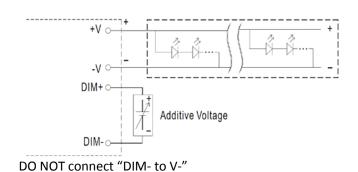


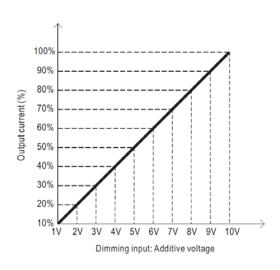


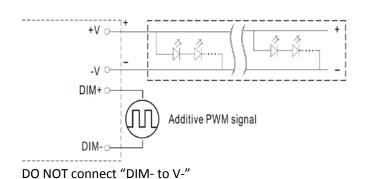


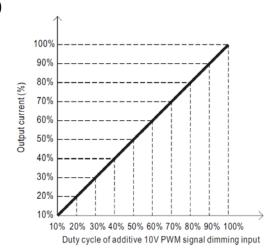


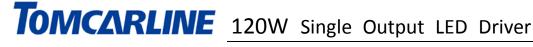
- ※ IP67 LEVEL, 3 in 1 dimming function(for D-Type).
- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:1 $\sim$ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested .It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100uA (typ.).
- Applying additive  $1\sim$ 10VDC

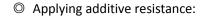


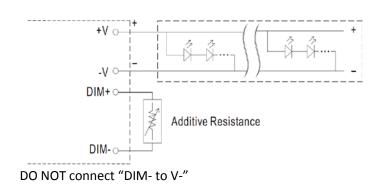


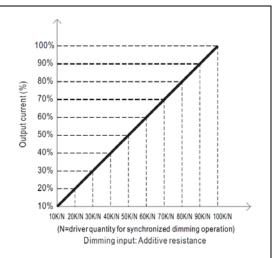




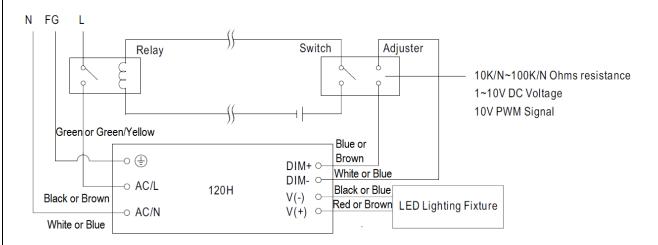




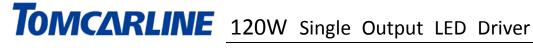


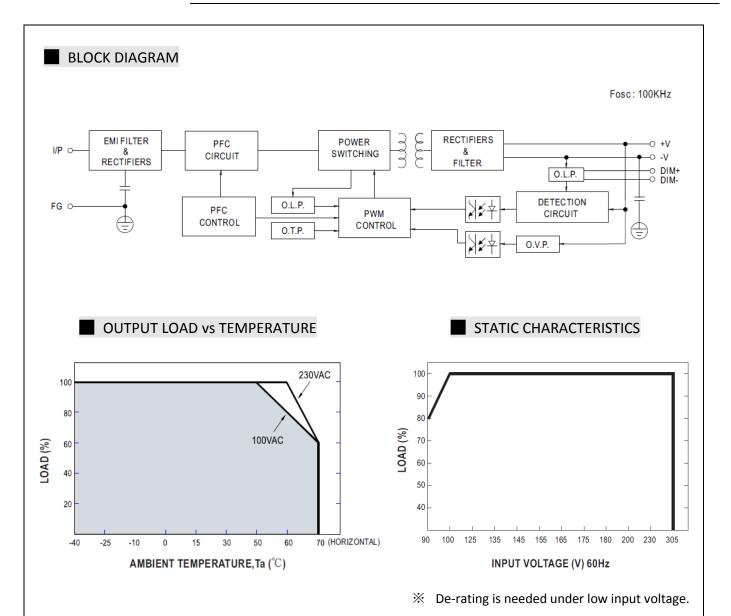


Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow:

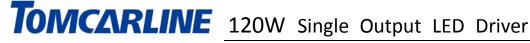


※ Using a switch and relay can turn ON/OFF the lighting fixture.

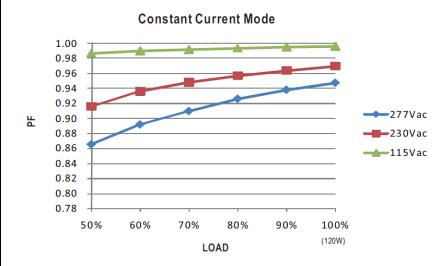




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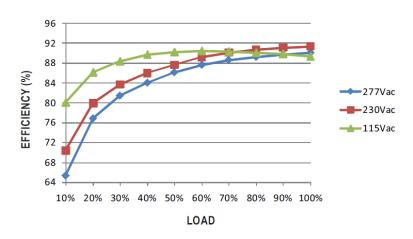


# POWER FACTOR (PF) CHARACTERISTIC



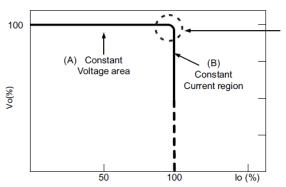
### **EFFICIENCY vs LOAD**

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.



Typical output current normalized by rated current (%)

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