### **TOMCARLINE** 185W Single Output LED Driver



#### ■ Features:

- Universal AC input/Full rang 90 $\sim$ 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 ( $0 \sim 10$ Vdc 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

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185R-42 V: IP65 Level, Io adjustable through built-in potentiometer

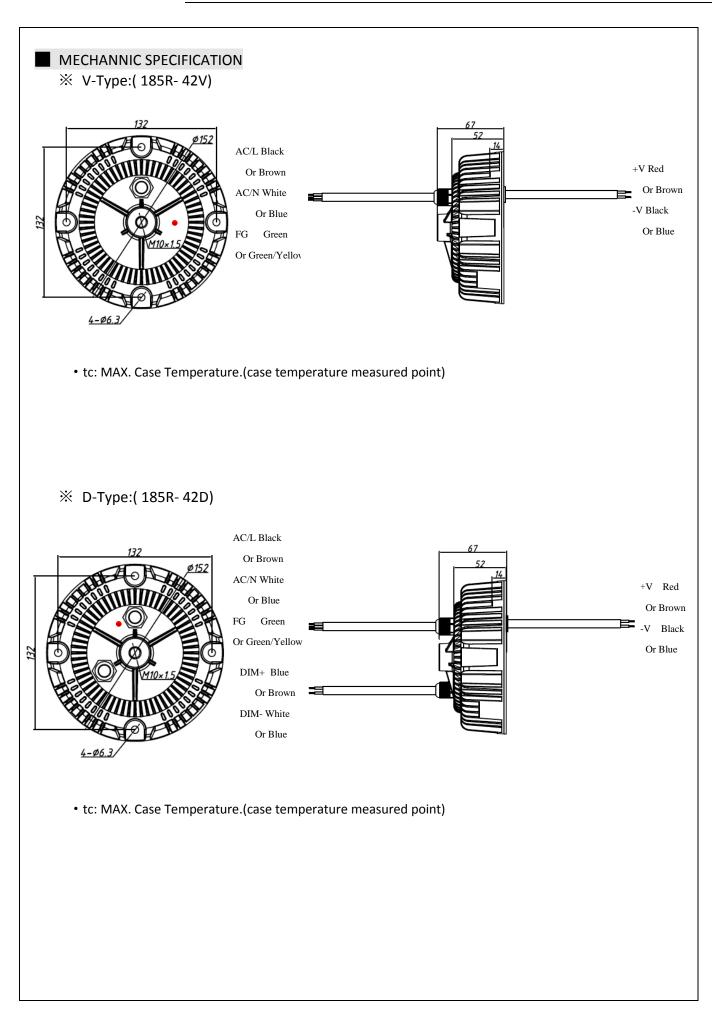
D: IP65 Level, 3 in 1dimming function (1 $\sim$ 10VDC,10V PWM signal and resistance)

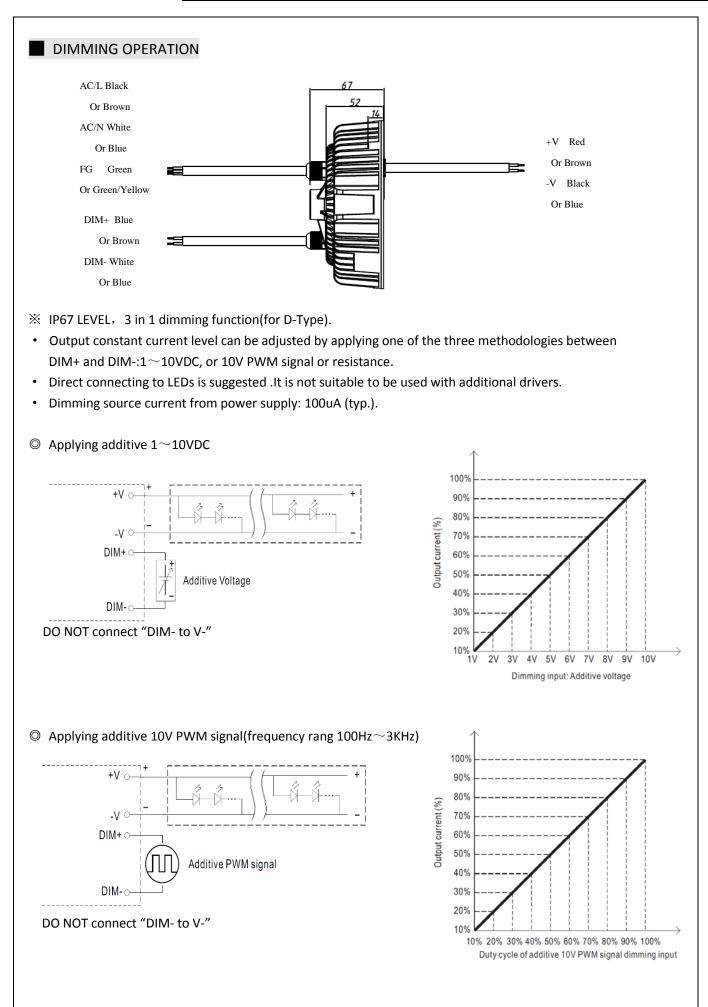
#### SPECIFCATION

Parameter Name	Min.	Тур.	Max.	Unit		
Input Voltage	100	110;230	277	Vac		
Input Current		0.9	3.5	А		
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%	4.4	+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)					

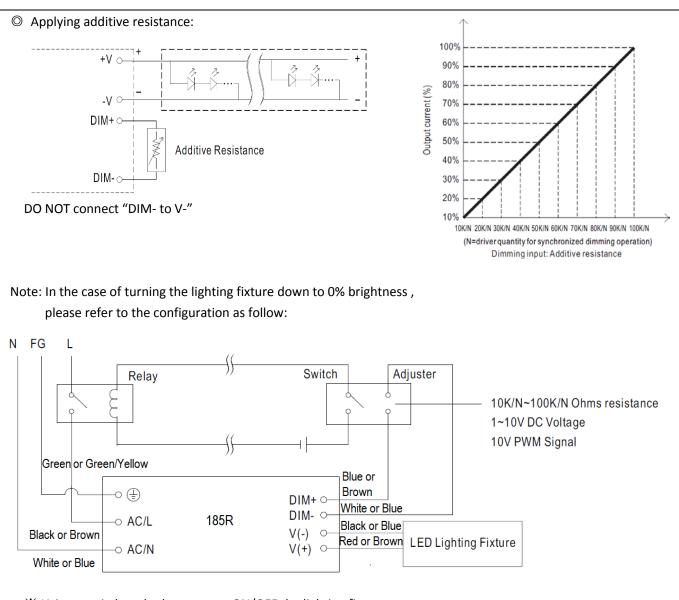
#### WORKING ENVIRONMENT

Item	Min.	Тур.	Max.	Unit		
Working Temp.	-40 $\sim$ +70 $^{\circ}$ C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)					
IP Rating	IP65					
MAX. Working Humidity	$20{\sim}95\%$ 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		





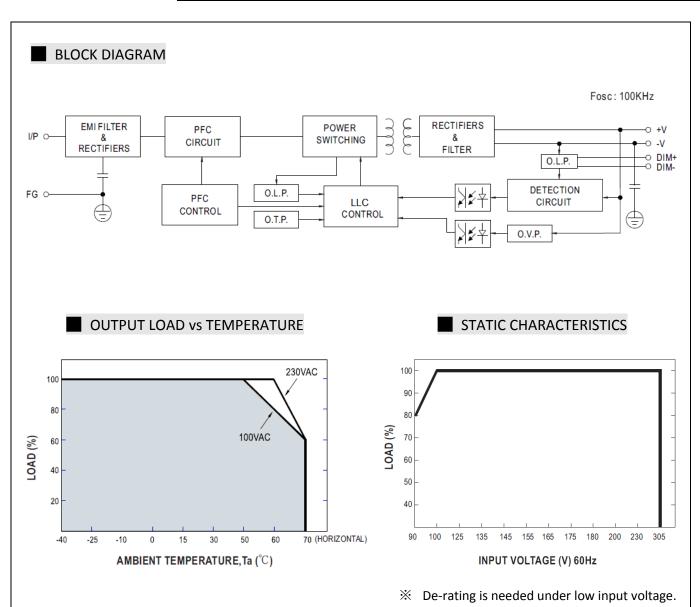
## **TOMCARLINE** 185W Single Output LED Driver

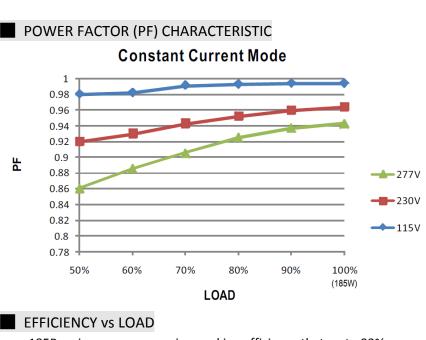


% Using a switch and relay can turn ON/OFF the lighting fixture.

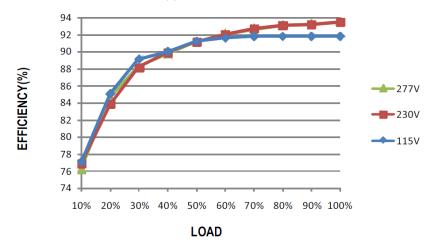
# **TOMCARLINE** 185W Single Output LED Driver

185R Series



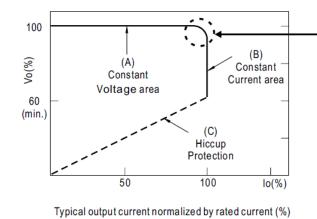


185R series possess superior working efficiency that up to 93% Can be reached in field applications.





\* 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.