

■ Features:

- Universal AC input/Full rang 90-305VAC
- Built-in active PFC function
- Protections: Short circuit/Over current /Over voltage
- Cooling by free air convection
- Built-in 3 in 1 dimming function (0/1-10VDC 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
- Ultra-long life

⊕ ⊕ ▼ ♥ SELV IP65 🐵 🖫 FC (€ CB 💩 RoHS

V: IP65 Level, Io adjustable through potentiometer

D: IP65 Level, 3 in 1dimming function (1-10VDC,10V PWM signal and resistance), Io adjustable through potentiometer

150R-42 🗆

DQ: 1. IP65 Level, 3 in 1dimming function (0-10VDC,10V PWM signal and resistance), lo adjustable through potentiometer

2. Auxiliary Power DC12V/Max 200mA (Constant Voltage mode, special parameter can be customized)

INPUT SPECIFCATIONS

Parameter Name	Min.	Тур.	Max.	Unit
Input Voltage	100	230	277	Vac
Input Current		0.8	2	Α
Power Factor	0.95	0.98	0.99	PF
THD	4	8	20	%
Frequency Rang	47	50\60	63	Hz
Inrush Current(Typ.)	Cold Start 65A(twidth=595us measured at 50% Ipeak) at 230VAC			
MAX. No. of PSUs on 16A Circuit Breaker	4 units (circuit breaker of type B)/7units (circuit breaker of type C) at 230VAC			

OUTPUT SPECIFCATIONS

Parameter Name		Min.	Тур.	Max.	Unit
Output no-load Voltage		43	46	48	Vdc
Output Serving Voltage Output Current Efficiency	Output Serving Voltage	32	42	43	Vdc
	Output Current	-3%	3.57	+3%	Adc
	Efficiency	88	91		% (230VAC)
Overshoot				10	%
Ripple & Noise			0.5	1	% (100% load)
No Load Power			0.5	2	W
Over Current Protection				110	%
Short Circuit Protection		Constant Current limiting, recovers automatically after fault condition is removed			

WORKING ENVIRONMENT

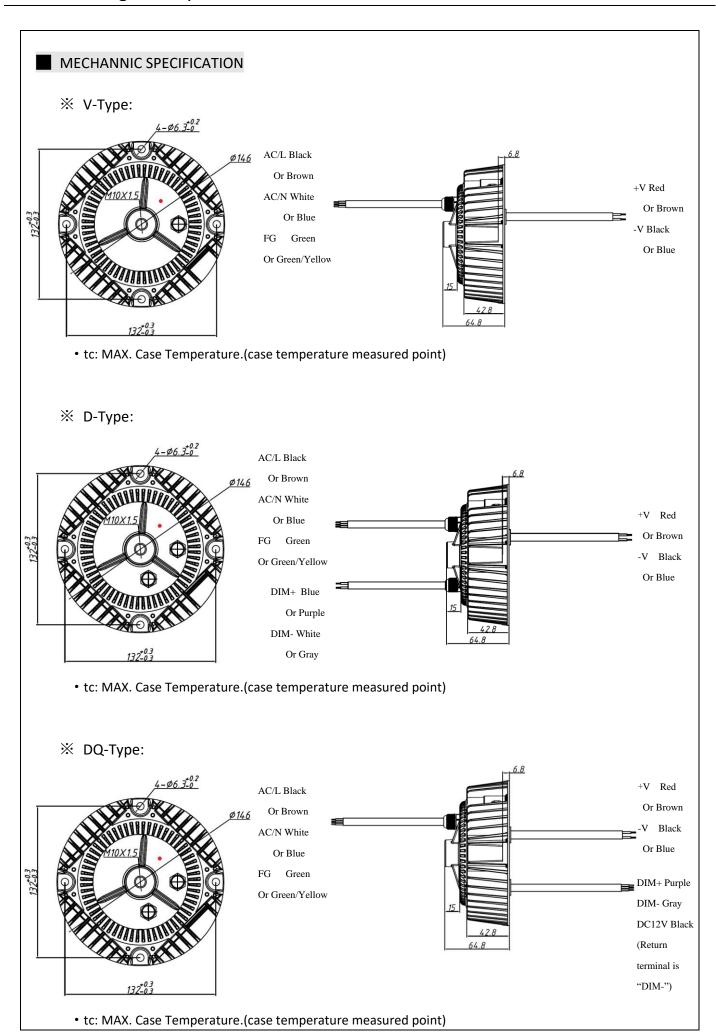
Item	Min.	Тур.	Max.	Unit
Working Temp.	-40∼+70°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)			
IP Rating	IP65			
MAX. Working Humidity	20∼95%RH non-condensing			
Cooling Method	Cooling by free air convection, External LED Driver can improve the lifespan.			
Storage Temp. , Humidity	-40∼+80°C,10∼95%RH			
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		4000		V
Surge :L,N-FG		6000		V

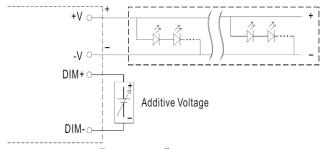
OTHER

MTBF	\geqslant 250.4Khrs MIL-HDBK-217F (25 $^{\circ}$ C)		
Dimensions	146*64.8 mm		
Weight	1.28 Kg		

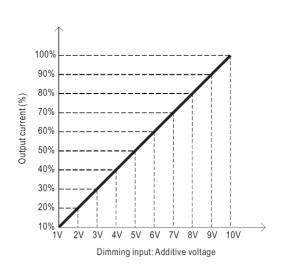


DIMMING OPERATION

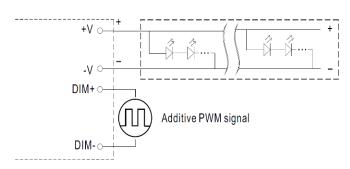
- 3 in 1 dimming function(for D-Type and DQ-Type)
- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:0/1-10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested .It is not suitable to be used with additional drivers.
- · Dimming source current from power supply: 100uA (typ.).
- O Applying additive 0/1-10VDC



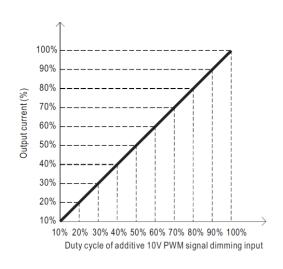
DO NOT connect "DIM- to V-"



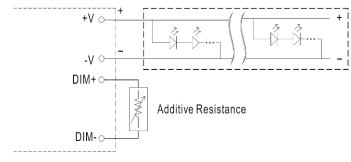
Applying additive 10V PWM signal(frequency rang 100Hz-3KHz)



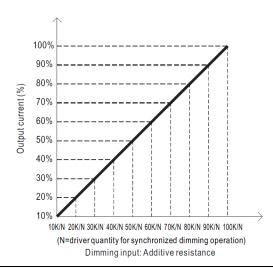
DO NOT connect "DIM- to V-"



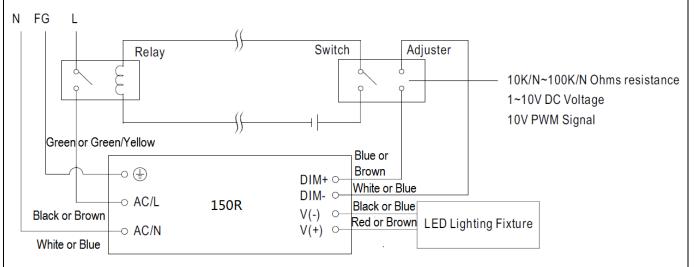
O Applying additive resistance:



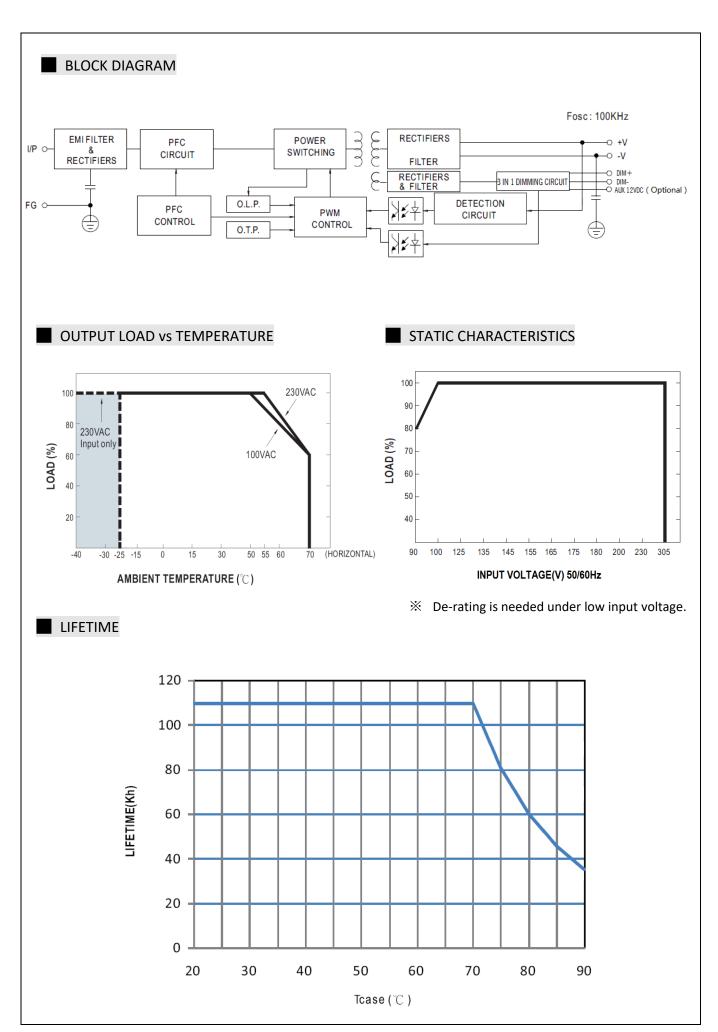
DO NOT connect "DIM- to V-"

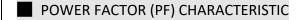


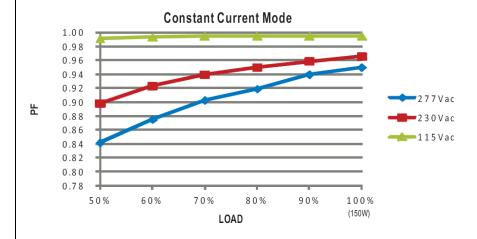
Note: In the case of turning the lighting fixture down to 0% brightness (For D-Type), please refer to the configuration as follow:



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

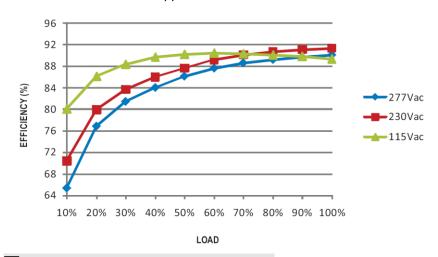






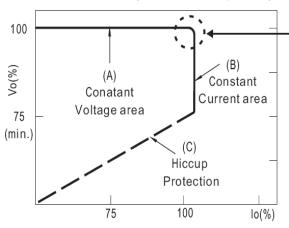
EFFICIENCY vs LOAD

150R series possess superior working efficiency that up to 91% Can be reached in field applications.



DRIVING METHODS OF LED MODULE

X 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 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.