

ORLRPV24150

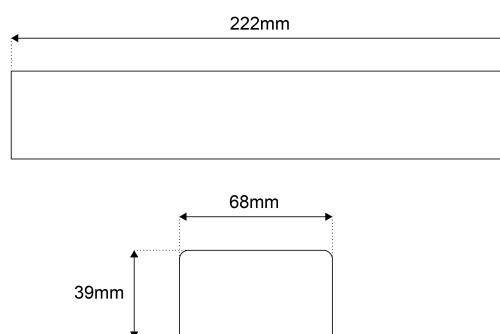
ITEM NO. DRIVER - 15203

Features

- Universal AC input / Full Range (up to 295VAC)
- Built-in active PFC function
- High efficiency up to 91%
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- OCP point adjustable through output cable or internal potentiometer
- IP65 / IP67 design for indoor or outdoor installations
- Three in one dimming function (1 ~ 10Vdc or PWM signal or resistor)
- Suitable for LED lighting and street lighting applications
- Compliance to worldwide safety regulations for lighting
- 3 years warranty



Dimension



Technical Specification

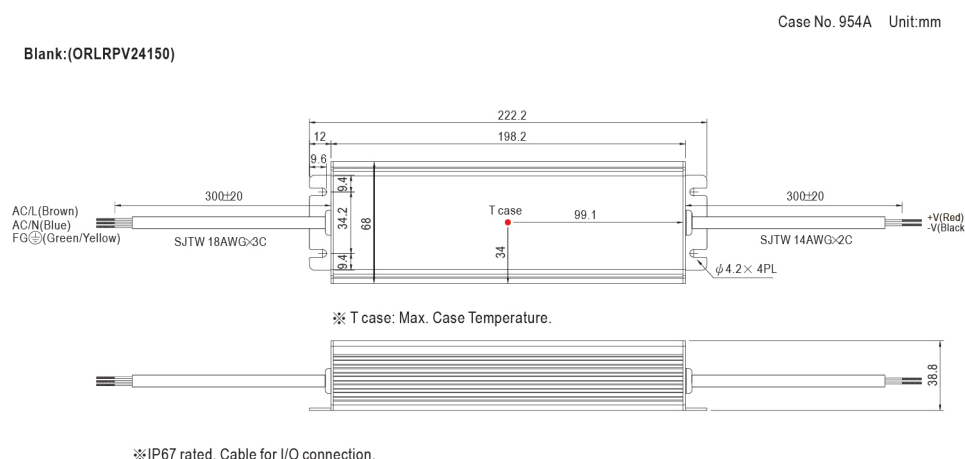
- CLG-150-12 A Blank : IP67 rated. Cable for I/O connection.
- A : IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.
- B : IP67 rated. Constant current level adjustable through output cable.
- C : Terminal block for I/O connection. Output voltage and constant current level can be adjusted through internal potentiometer.

MODEL		ORLRPV24150
OUTPUT	DC VOLTAGE	24V
	CONSTANT CURRENT REGION Note.4	18~24V
	RATED CURRENT	6.3A
	RATED POWER	151.2W
	RIPPLE & NOISE (max.) Note.2	150mVp-p
	VOLTAGE ADJ. RANGE Note.6	22 ~ 27V
	CURRENT ADJ. RANGE	Can be adjusted by internal potentiometer A type and C type only 3.15 ~ 6.3A
	VOLTAGE TOLERANCE Note.3	±1.0%
	LINE REGULATION	±0.5%
	LOAD REGULATION	±0.5%
	SETUP, RISE TIME	3000ms, 80ms/115VAC 500ms, 80ms/230VAC at full load
	HOLD UP TIME (Typ.)	50ms / 230VAC 16ms / 115VAC at full load

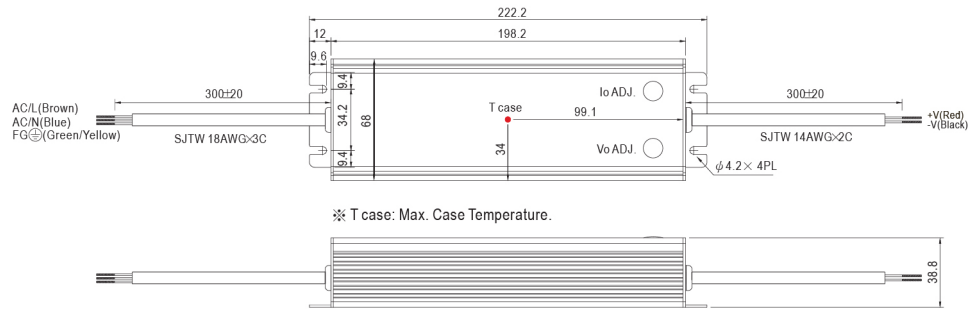
Technical Specification Continued

INPUT	VOLTAGE RANGE Note.5	90 ~ 295VAC 127 ~ 417VDC
	FREQUENCY RANGE	47 ~ 63Hz
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.95/230VAC, PF>0.93/277VAC at full load (Please refer to "Power Factor Characteristic" curve)
	TOTAL HARMONIC DISTORTION	THD< 20% when output loading $\geq$ 75% at 115VAC/230VAC input and output loading $\geq$ 75% at 277VAC input
	EFFICIENCY (Typ.)	90%
	AC CURRENT (Typ.)	2A / 115VAC 1A / 230VAC 0.68A / 277VAC
	INRUSH CURRENT(max.)	COLD START 65A(twidth=59 μ s measured at 50% Ipeak) at 230VAC
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	3 units (circuit breaker of type B) / 5 units (circuit breaker of type C) at 230VAC
PROTECTION	LEAKAGE CURRENT	<1mA / 240VAC
	OVER CURRENT (Typ.) Note.4	95 ~ 108% Protection type : Constant current limiting, recovers automatically after fault condition is removed
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed
	OVER VOLTAGE	28 ~ 34V Protection type : Shut down and latch off o/p voltage, re-power on to recover
ENVIRONMENT	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover
	WORKING TEMP.	-30 ~ +70 $\square$ (Refer to "Derating Curve")
	WORKING HUMIDITY	20 ~ 95% RH non-condensing
	STORAGE TEMP., HUMIDITY	-40 ~ +80 $\square$, 10 ~ 95% RH
	TEMP. COEFFICIENT	$\pm$ 0.03%/ $\square$ (0 ~ 5 $\square$)
SAFETY & EMC	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes
	SAFETY STANDARDS Note.7	UL8750, CSA C22.2 No. 250.0-08, UL1012, CAN/CSA-C22.2 No. 107.1-01, UL879, CSA C22.2 No.207-M89, EN61347-1, EN61347-2-13 independent (except for CLG-150 C type), UL60950-1, TUV EN60950-1, IP65 or IP67, J61347-1(except for CLG-150 C type), J61347-2-13 approved
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25 $\square$ / 70% RH
	EMC EMISSION	Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C ($\square$ 75% load) ; EN61000-3-3
OTHERS	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV), criteria A
	MTBF	303.7K hrs min. MIL-HDBK-217F (25 $\square$)
	DIMENSION	222.2*68*38.8mm (L*W*H)(CLG-150-Blank/A/B) 229*68*38.8mm (L*W*H)(CLG-150-C)
NOTE	PACKING	1.0Kg; 12pcs/13Kg/0.58CUFT(CLG-150-Blank/A/B) 1Kg; 12pcs/13Kg/0.96CUFT(CLG-150-C)
	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 $\square$ of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ f & 47 μ f parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Please refer to "DRIVING METHODS OF LED MODULE". 5. Derating may be needed under low input voltages. Please check the static characteristics for more details. 6. A type and C type only. 7. Safety and EMC design refer to EN60598-1, subject 8750(UL), CNS15233, GB7000.1, FCC part18. 8. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 9. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.	

Mechanical Specification



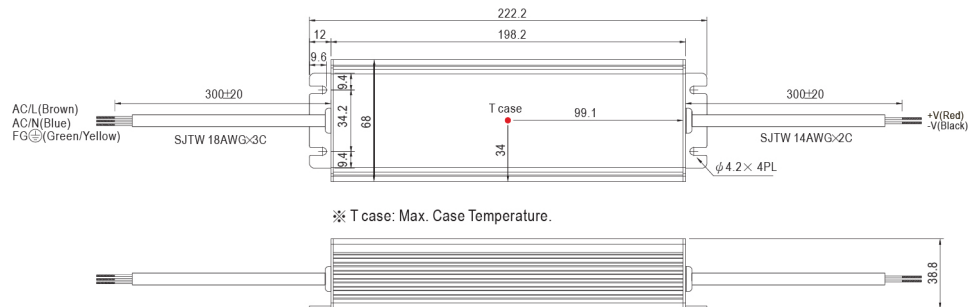
Mechanical Specification Continued

A Type:(ORLRPV24150-A)

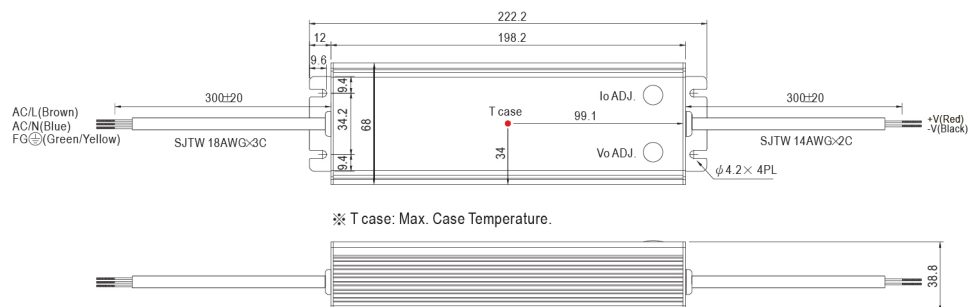
※ IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.
 (Can access by removing the rubber stopper on the case.)

Case No. 954A Unit:mm

Blank:(ORLRPV24150)



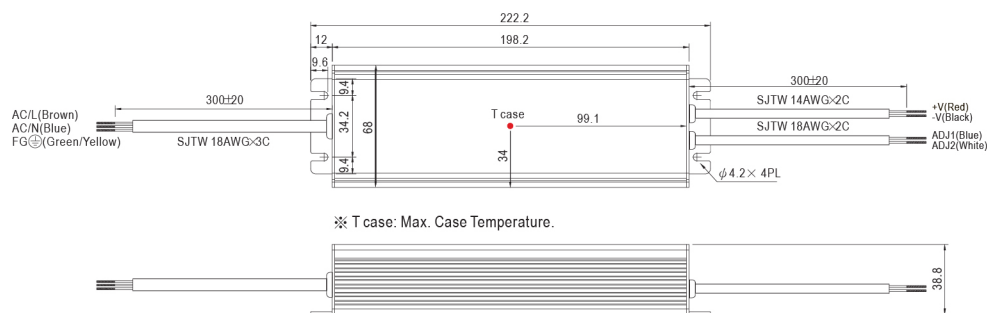
※ IP67 rated. Cable for I/O connection.

A Type:(ORLRPV24150-A)

※ IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.
 (Can access by removing the rubber stopper on the case.)

Mechanical Specification Continued

B Type:(ORLRPV24150- B)

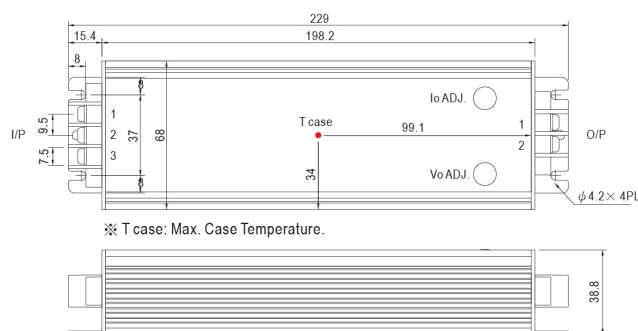


※ IP67 rated. Output constant current level can be adjusted through output cable by connecting a resistor between ADJ1 and ADJ2.

※ Reference resistance value for output current adjustment (Typical)

Resistance	Percentage of rated current
Open	Slightly > 100%
4.7K Ω	100%
620 Ω	75%
82 Ω	50%
Short	Slightly < 50%

C Type:(ORLRPV24150- C)



AC Input Terminal Pin No. Assignment

Pin No.	Assignment
1	FG $\perp$
2	AC/N
3	AC/L

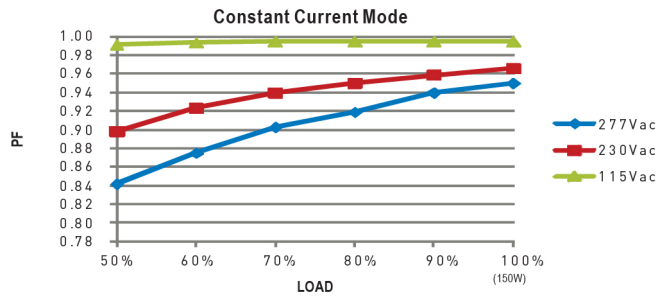
DC Output Terminal Pin No. Assignment

Pin No.	Assignment
1	+V
2	-V

※ Output voltage and constant current level can be adjusted through internal potentiometer.
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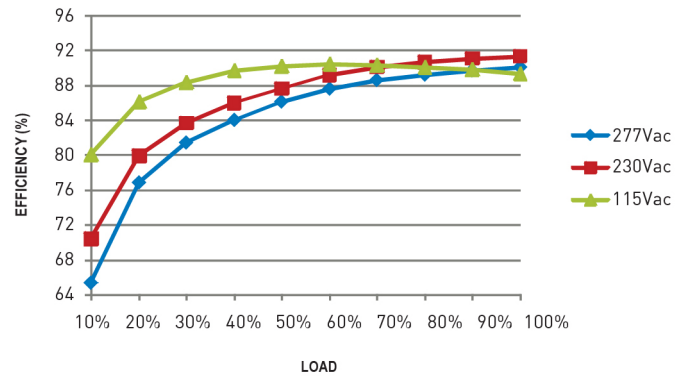
ORLRPV24150

Power Factor Characteristic



Efficiency vs Load (48V Model)

ORLRPV24150 possess superior working efficiency that up to 91% can be reached in field applications.

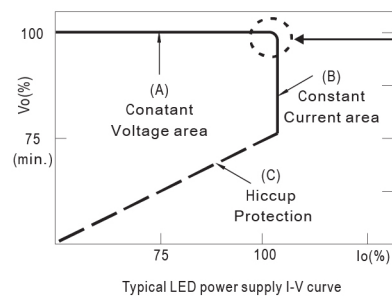


Driving Methods of LED Module

There are two major kinds of LED drive method "direct drive" and "with LED driver".

A typical LED power supply may either work in "constant voltage mode (CV) or constant current mode (CC)" to drive the LEDs.

Mean Well's LED power supply with CV+ CC characteristic can be operated at both CV mode [with LED driver, at area (A)] and CC mode [direct drive, at area (B)].



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.