

FEATURES

150W Constant Voltage LED Driver

LEDWV-150Series

- Ultra High Efficiency (Up to 93%)
- High Power Factor (0.99 Typical)
- Lighting Protection
- Over Voltage, Over Current, Over Temperature and Short Circuit Protection
- Waterproof (IP67)
- RoHs compliance



SPECIFICATION

Model		LEDWV-150S012ST	LEDWV-150S020ST	LEDWV-150S024ST	
Output	Output Voltage	12 Vdc	20 Vdc	24 Vdc	
	Current Range	0~12.5 A	0~7.50 A	0~6.25 A	
	Ripple & Noise	2% Vo			
	Line Regulation	±1%			
	Load Regulation	±2%			
	Turn-on Delay Time	0.9s Typ. Measured at 110Vac input. / 0.5s Typ. Measured at 220Vac input.			
	Voltage Tolerance	-5% Min. / 5% Max			
	Overshoot/ Undershoot	10% When power on or off.			
Temperature coefficient	0.02%/°C Case temperature = 0°C~Tc max				
Input	Leakage Current	1 mA at 277Vac 60Hz input			
	Voltage	90~305V			
	Frequency	47-63Hz			
	PF	110Vac	0.99	0.99	0.99
		220Vac	0.97	0.97	0.97
	THD	20%			
	Inrush Current	65A at 220Vac input, ,25°C cold start, duration=1.2ms, 10% Ipk-10% Ipk			
AC Current	1.75A measured at full load and 100 Vac input. / 0.8A measured at full load and 220 Vac input.				
Protections	Short Circuit	Protection type : Hiccup mode, recovers automatically after fault condition is removed with no damage to driver			
	Over Temperature	110 °C Maximum temperature of components inside case			
	Over Voltage	120% Typ. Latch mode. The power supply shall return to normal operation after recycling AC.			
	Over Current	135% Io Typ. Hiccup mode. The power supply shall self-recover when the fault condition is removed.			
Environmental	Temperature Range	Operating	-35°C - +70°C		
		Storage	-40°C - +85°C		
	Case Temperature	90°C			
	Humidity	Operating	10% RH to 100% RH; See derating Curve for more details		
Storage		5% RH to 100 RH			
Safety & EMC	UL/CUL / CE	UL8750,UL1012,CSA-C22.2 No. 107.1 EN61347-1,EN61347-2-13			
	EMI Standards	EN55015, EN61000-3-2, EN61000-3-3			
	EMS Standards	EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11, EN61547			
Others	MTBF	260,900 hours			
	Life Time	77,200 hours measured at 220Vac input, 80% load, Case temperature=60°C @ Tc point. See life time vs. curve for details			
	Dimension	Inches (L*W*H)7.83*2.66*1.56 Millimeters (L*W*H) 199*67.5*39.5			
	Weight	1000 g			



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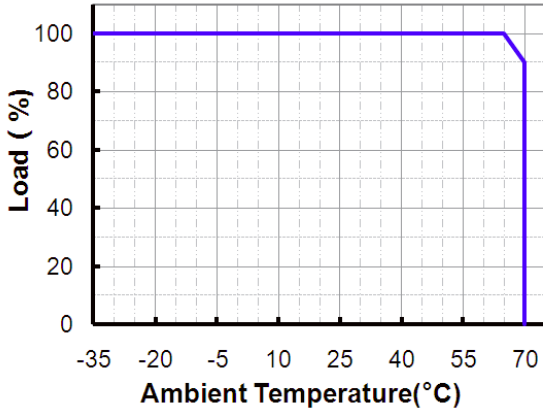

SPECIFICATION

Model		LEDWV-150S036ST	LEDWV-150S048ST	LEDWV-150S054ST	
Output	Output Voltage	36 Vdc	48 Vdc	54 Vdc	
	Current Range	0~4.17 A	0~3.13 A	0~2.78 A	
	Ripple & Noise	2% Vo			
	Line Regulation	±1%			
	Load Regulation	±2%			
	Turn-on Delay Time	0.9s Typ. Measured at 110Vac input. / 0.5s Typ. Measured at 220Vac input.			
	Voltage Tolerance	-5% Min. / 5% Max			
	Overshoot/ Undershoot	10% When power on or off.			
	Temperature coefficient	0.02%/°C Case temperature = 0°C~Tc max			
Input	Leakage Current	1 mA at 277Vac 60Hz input			
	Voltage	90~305V			
	Frequency	47-63Hz			
	PF	110Vac	0.99	0.99	0.99
		220Vac	0.96	0.96	0.96
	THD	20%			
	Inrush Current	65A at 220Vac input, ,25°C cold start, duration=1.2ms, 10%Ipk-10%Ipk			
AC Current (Typ.)	2.3A measured at full load and 100 Vac input. / 1.1A measured at full load and 220 Vac input.				
Protections	Short Circuit	Protection type : Hiccup mode, recovers automatically after fault condition is removed with no damage to driver			
	Over Temperature	110 °C Maximum temperature of components inside case			
	Over Voltage	120% Typ. Latch mode. The power supply shall return to normal operation after recycling AC.			
	Over Current	135% Io Typ. Hiccup mode. The power supply shall self-recover when the fault condition is removed.			
Environmental	Temperature Range	Operating	-35°C - +70°C		
		Storage	-40°C - +85°C		
	Case Temperature	90°C			
	Humidity	Operating	10% RH to 100% RH; See derating Curve for more details		
Storage		5% RH to 100 RH			
Safety & EMC	UL/CUL / CE	UL8750,UL1012,CSA-C22.2 No. 107.1 EN61347-1,EN61347-2-13			
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	Life Time	77,200 hours measured at 220Vac input, 80% load, Case temperature=60°C @ Tc point. See life time vs. curve for details			
	Dimension	Inches (L*W*H)7.83*2.66*1.56 Millimeters (L*W*H) 199*67.5*39.5			
	Weight	1000 g			

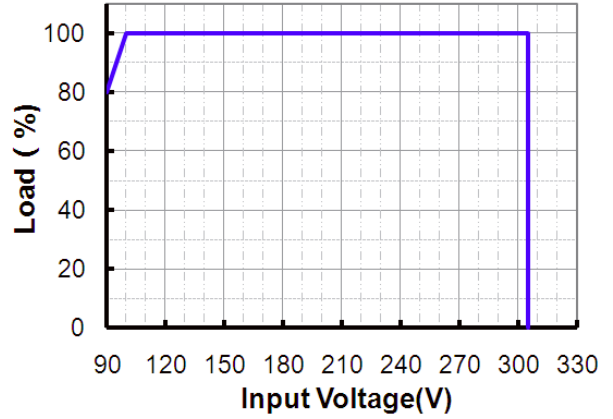


Derating Curve

Derating Curve

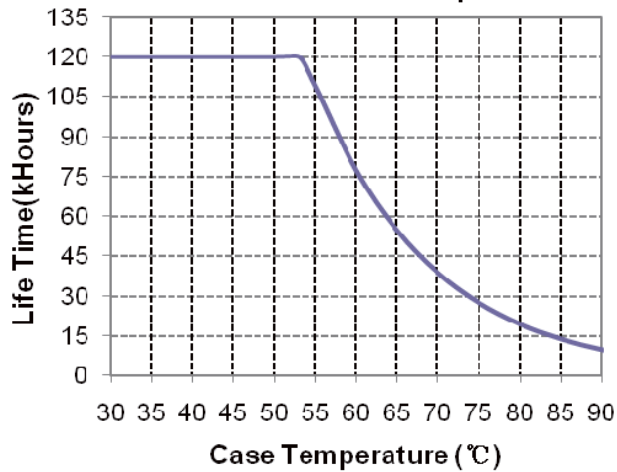


Derating Curve

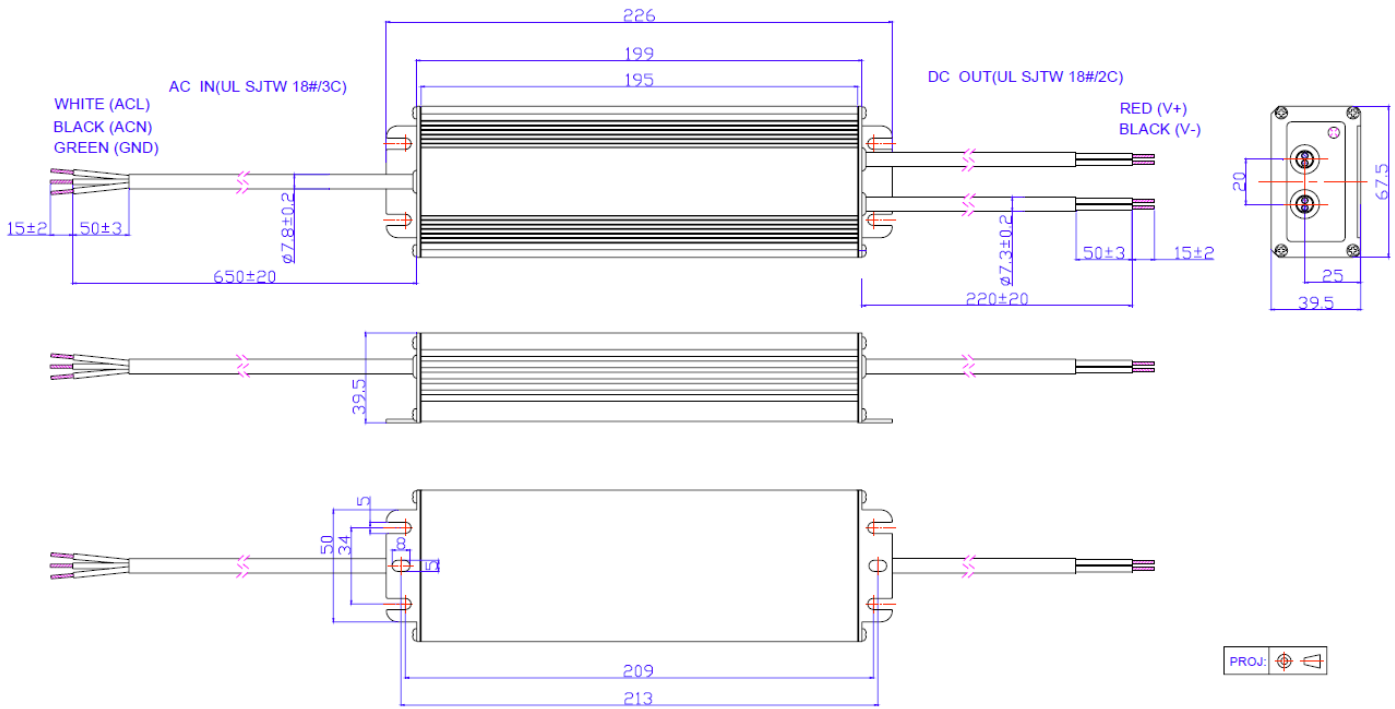


Life Time vs. Case Temperature Curve

Life Time vs. Case Temperature

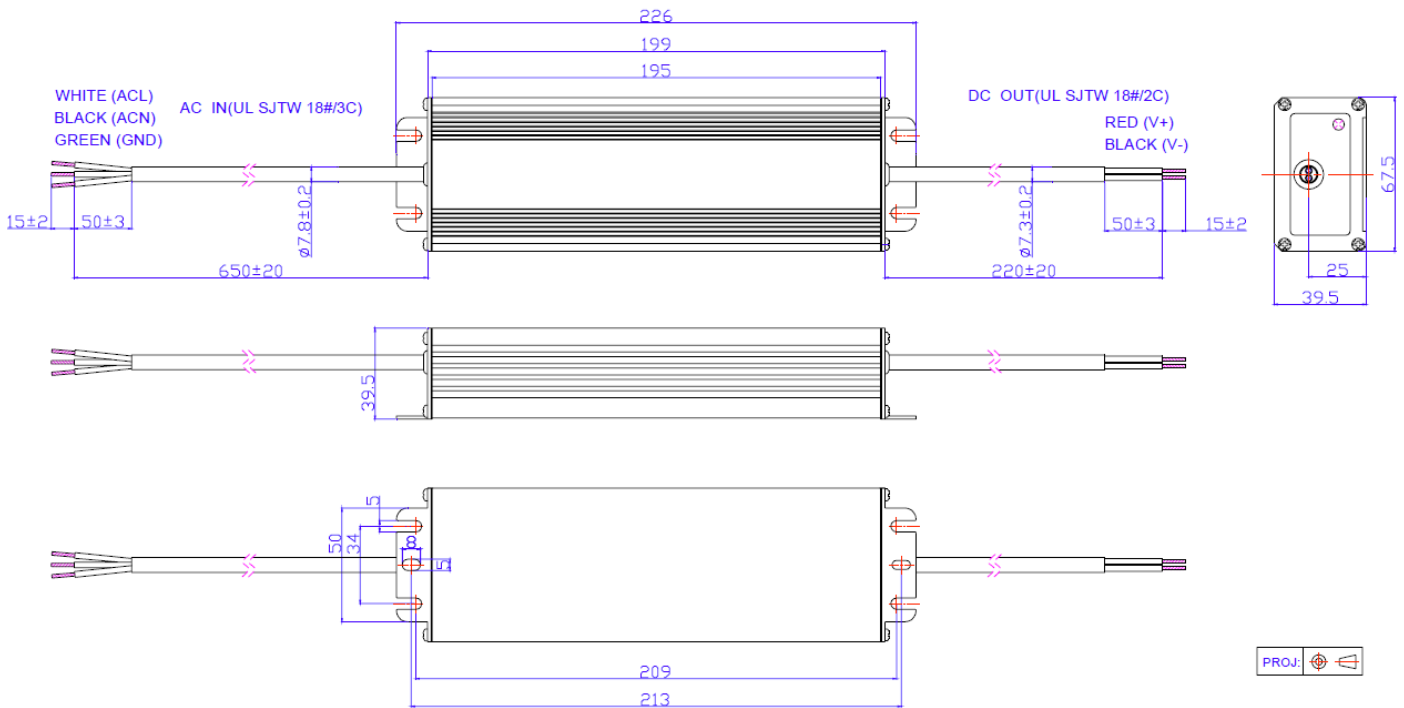


Mechanical LEDWV-150S012ST



Note: The 2 DC output cables are connected in parallel internally because one AWG #18 wire can only carry 10A. Please connect the 2 red wires together and 2 black wires together in application, or ensure each cable carries same current.

Mechanical (Others)



PART NUMBER SCHEME

LEDWV-150S012ST

- LED= LED Driver
- W=wide input voltage 90~305Vac
- V= Constant Voltage

- T= standard 3 pin UL
- S=Metal case
- 012= Rated voltage
- S=Single Output
- Rated Power

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