

FEATURES

Ultra High Efficiency (Up to 93%)
Class 2 UL1310 Output (See Notes)
Active Power Factor Correction (Up to 0.99)
Waterproof (IP67)
Approved for Damp and Wet Locations (See Notes)
Lightning Protection
Over Voltage, Over Temperature & Short Circuit Protection
Comply with UL8750 & EN61347 Safety Regulations
Very High MTBF & Life Time
Complies With FCC Part 15 Class B
RoHS Compliant (2002/95/EC)

96W Constant Voltage LED Driver

LEDWV-096 Series



SPECIFICATION

Model		LEDWV-096S024ST (6)	LEDWV-096S036ST (7)	LEDWV-096S048ST (8)	LEDWV-096S054ST (8)	
Output	Rated Current	4.0A	2.66A	2.0A	1.77A	
	Current Range(Min-Max) mA	0 - 4.0A	0 - 2.66A	0 - 2.0A	0 - 1.77A	
	Rated Power	96W	96W	96W	96W	
	Ripple & Noise (Max.) (2)	3% V _o Pk -Pk				
	Output Voltage	24 V	36 V	48 V	54 V	
	Voltage Range (Min - Max)	22.8V - 25.2V	34.2V - 37.8V	45.6V - 50.4V	51.3V - 56.7V	
	Line Regulation	1%				
	Load Regulation	2%				
	Load Dynamic Response (5)	Output Deviation	5% V _o Max.			
		Setting Time	10mS Max.			
Input	Setup, Rise Time (Typ)	0.8S				
	Voltage Range	90V ~ 305VAC				
	Frequency Range	47Hz / 63Hz				
	Power Factor Correction	0.99 @ 100VAC and 0.95 @ 220 VAC				
	Efficiency (Typ.) (1)	88.0%	89%	89%	90.0%	
	Leakage Current (Max)	1 mA at 277Vac 50Hz inoput				
	Inrush Current (Max)	50A @ 230VAC Input				
	AC Current (Typ.)	1.2 A / 100VAC 0.6A / 220VAC				
Protections	Short Circuit Protection	Hiccup mode, recovers automatically after the fault condition is removed				
	Over Current Protection	100-110% Io Hiccup mode, recovers automatically after the fault condition is removed				
	Over Temperature Protection	110°C (Typ) Latch-off mode. The power supply shall return to normal operation after cooling and AC power must be recycled.				
	Over Voltage (Typ.)	30V	45V	55V	65V	
Environmental	Temperature Range	Operational (Ambient)	-35°C to +70°C, Maximum case temperature 89°C			
		Storage (Ambient)	-40°C to +85°C			
	Humidity	Operational	10 ~ 100% RH			
		Storage	5 ~100% R.H			
Safety & EMC	Safety Standards	UL/cUL 8750, UL1310 (Class 2), CSA-C22.2 [No 107.1, No. 223-M91 (Class 2)]				
	CE	EN61347-1, EN61347-2-13				
	EMI	EN55015 with 6db margin, FCC Part 15 Class B (ANSI C63.4: 2009), EN 61000-3-3				
	Harmonic Current	EN61000-3-2 , EN61000-3-3				
	EMS Immunity	EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11, EN 61547				
Others	MTBF (3)	400K HRS - MIL-HDBK-217F				
	Life Time (4)	60k hours				
	Weight & Dimension (L*W*H)	174*67.5*37.0 (mm) 6.85*2.66*1.46 (inch)				

NOTES:

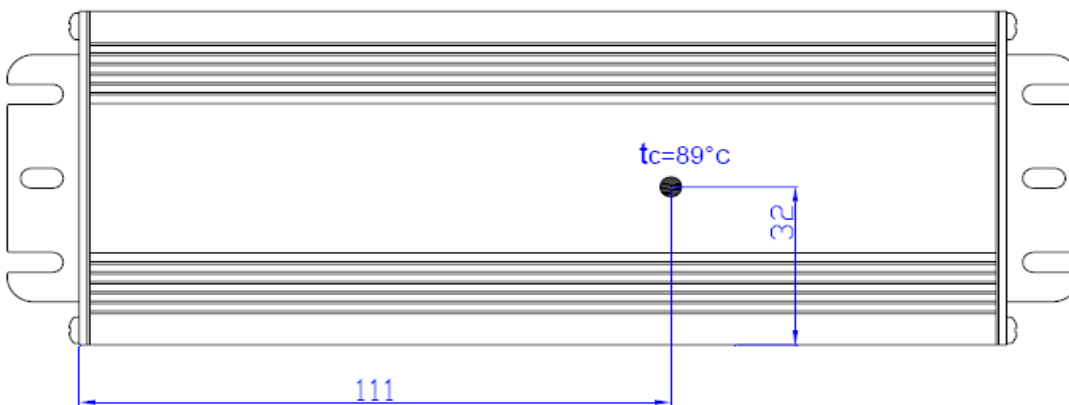
1. Measured at full load, 220VAC input and 25 °C ambient temperature.
2. Ripple & noise are measured on a 20MHz bandwidth oscilloscope with the output paralleled using a 0.1uf ceramic capacitor and 10 uf electrolytic capacitor.
3. For 24V model, 110VAC input, 80%load and 25 °C ambient temperature.
4. For 24V model, 220VAC input, 80%load and 60°C Case temperature.
5. R/S: 1A/μS, Load: 25% ~ 75%
6. Class 2 output (USR & CNR) for dry and damp and wet locations.
7. Class 2 output (USR & CNR) for dry and damp locations, CSA Class 2 output only for wet locations.
8. Class 2 output (USR) for dry and damp locations.

All parameters NOT specially mentioned are measured at 220VAC input, rated load and 25 °C of ambient temperature.

Specifications are subject to change without notice. AUTEC cannot be held liable for errors or omissions or the consequences thereof.

Model	LEDWV-096S024ST	LEDWV-096S036ST	LEDWV-096S048ST	LEDWV-096S054ST
Efficiency @ Full Load and 110VAC (min)	85.0%	86.0%	86.0%	87.0%
Efficiency @ Full Load and 110VAC (typ)	86.0%	87.0%	87.0%	88.0%
Efficiency @ Full Load and 220VAC (min)	87.0%	88.0%	88.0%	89.0%
Efficiency @ Full Load and 220VAC (typ)	88.0%	89.0%	89.0%	90.0%

■ Maximum Case Temperature Measurement Location



■ Mechanical Specification

