

FEATURES

42W Constant Voltage LED Driver LEDWV-42 Series

- High Efficiency (Up to 89%)
- Class 2 Output (See Notes)
- Active Power Factor Correction (Typical 0.95)
- Waterproof (IP66) and Damp Location Certified
- Short Circuit, Overload and Over Temperature Protection
- UL/cUL 8750, EN61347, SELV Equivalent & CE Certified
- RoHS Compliant



SPECIFICATION

Model		LEDWV-042S012PS (1)	LEDWV-042S024PS (1)	LEDWV-042S036PS (1)	LEDWV-042S048PS (2)
Output	Rated Voltage	12V (9)	24V (9)	36V (9)	48V (9)
	No Load Voltage	16V	28V	40V	52V
	Rated Power	42W	42W	42W	42W
	Ripple & Noise (10)	3V	4V	4V	4V
	Current Range	0-3500mA	0-1750mA	0-1160mA	0-875mA
	Line Regulation	2%			
	Load Regulation	3%			
	Overshoot/Undershoot	10%			
	Turn-on Delay (Typ.)	0.6S (110Vac), 0.3S (220Vac)			
Input	Voltage Range	90 ~ 305 Vac			
	Frequency Range	47Hz / 63Hz			
	Efficiency (3)	84.0%	86.0%	87.0%	89.0%
	Inrush Current	70A Max. (At 230Vac input 25°C Cold Start. Duration=100µs)			
	AC Current (Typ.)	0.6A @ 100 VAC		0.3A @ 220 VAC	
	THD	20% Max.			
Protections	Short Circuit	Hiccup mode, no damage shall occur and the power supply shall restart when the fault condition is removed			
	Overload	Hiccup mode, at 140% (Typ.) of rated load the power supply shall restart when the fault condition is removed			
	Over Temperature	Hiccup mode, when the case temperature reaches 110°C the power supply shut down; when the case temperature cools to 75°C, the power supply will restart.			
Environment	Temperature Range	Operational	-35°C ~ 70°C (See derating Curve)		
		Storage	- 40 ~ +85°C		
	Humidity	Operational	10% RH to 100% RH		
		Storage	5% RH to 100% RH		
Safety & EMC	Safety Standards	UL8750, UL1012, UL1310 Class 2, CSA C22.2 NO. 223-M91 Class 2; CE (EN 61347-1, EN61347-2-13)			
	No load Power Dissipation	6 W			
	Conducted & Radiated EMI	EN 55015 Class B			
	Harmonic Current	EN 61000-3-2			
EMS	EN 61000-3-3, EN 61000-4-2 (4), EN 61000-4-3 (5), EN 61000-4-4 (6), EN 61000-4-5 (7), EN 61000-4-6 (8), EN 61000-4-8, EN 61000-4-11, EN 61547 ANSI/IEEE C62.41: Class A Operation (See notes below)				
Others	MTBF	321,000 hours (Measured at 110Vac input, 80% Load and 25°C ambient temperature (MIL-HDBK-217F))			
	Life Time	120,000 Hours (Measured at 110Vac input, 80% Load and 60°C case temperature- see curve below)			
	Dimension (L*W*H)	95 × 70 × 32 (mm) - 3.74 × 2.76 × 1.26 (inch)			
	Weight	350 g			

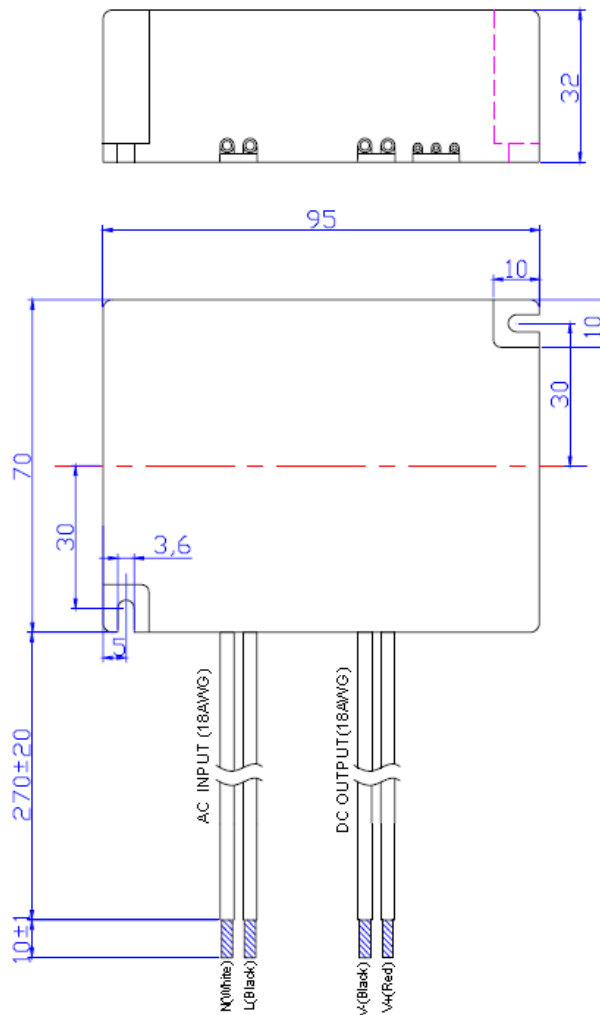


Notes

1. Class 2 US and Canada
2. Class 2 US only
3. Typical at 220VAC
4. Electrostatic Discharge (ESD): 8 kV air discharge, 4 kV contact discharge
5. Radio-Frequency Electromagnetic Field Susceptibility Test-RS
6. Electrical Fast Transient / Burst-EFT: level 3, criteria A
7. Surge Immunity Test: AC Power Line: line to line 2 kV, line to earth 4 kV
8. Conducted Radio Frequency Disturbances Test-CS
9. Output voltage tolerance +/-5%
10. Max. Measured by 20 MHz bandwidth oscilloscope and the output paralleled a 0.1 uF ceramic capacitor and a 10uF electrolytic capacitor.

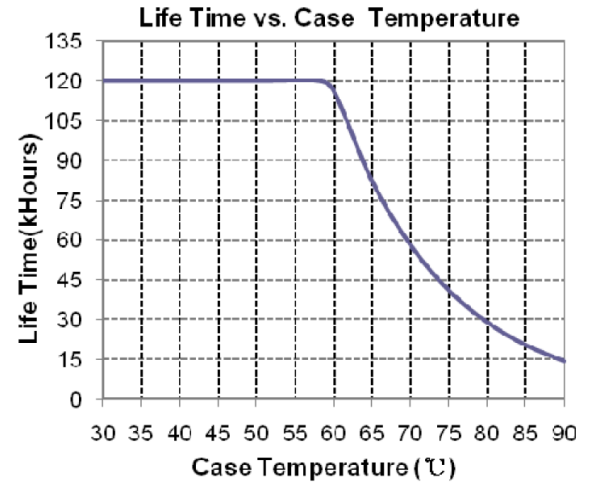
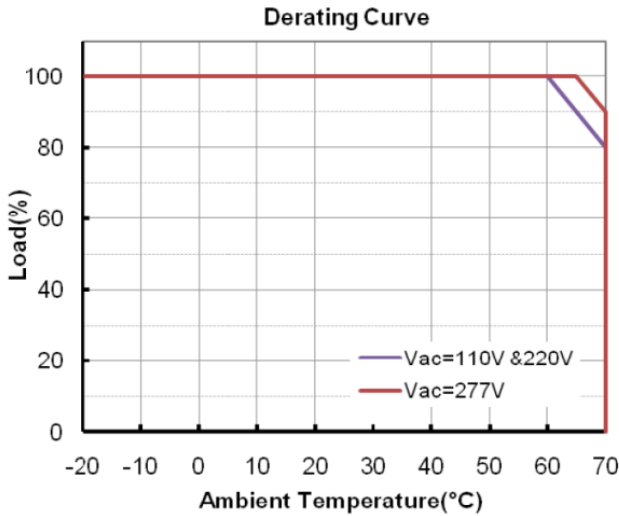
Mechanical Specification

LEDWV-042SxxxPS

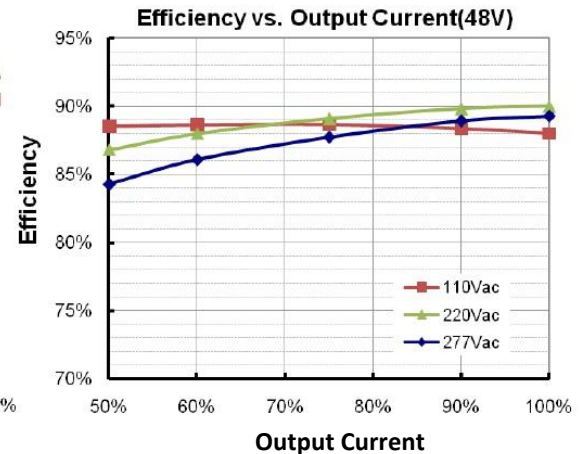
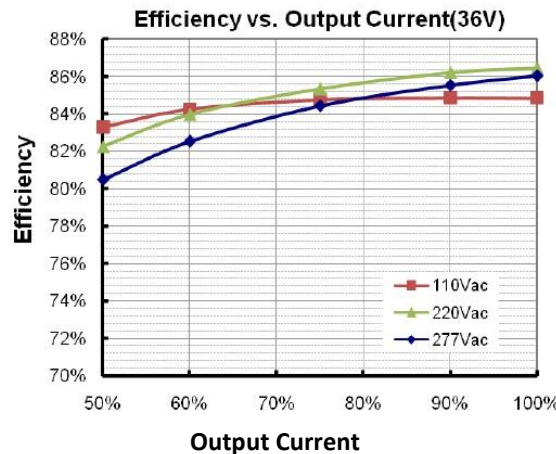
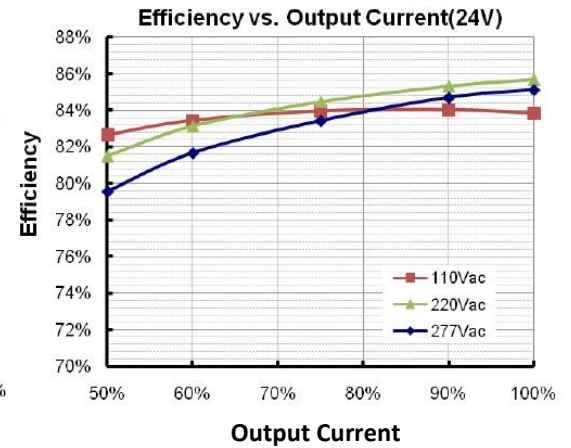
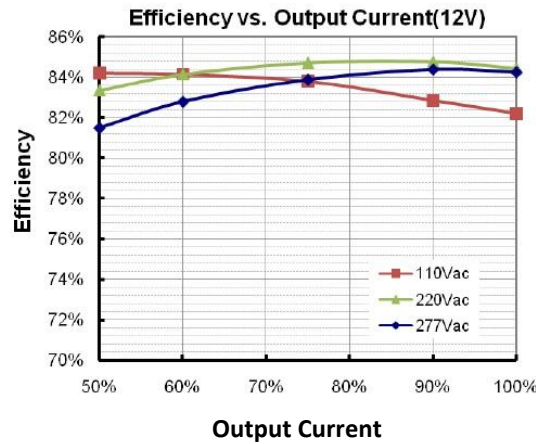


Ambient Temperature Derating Curve

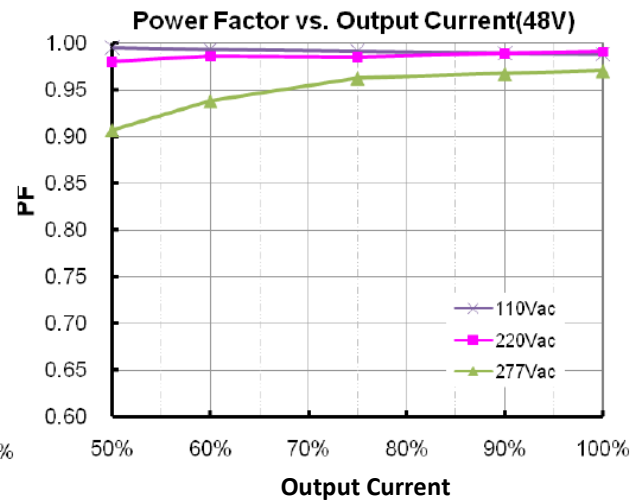
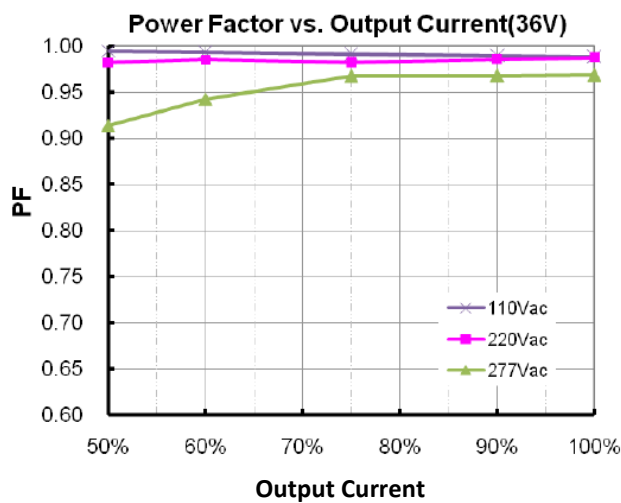
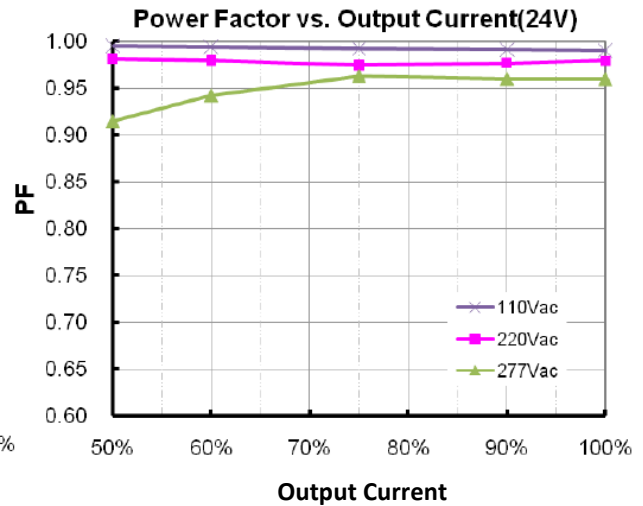
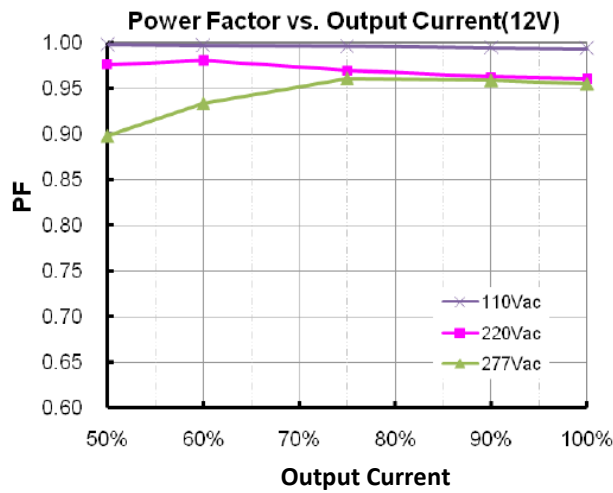
Life Time Curve



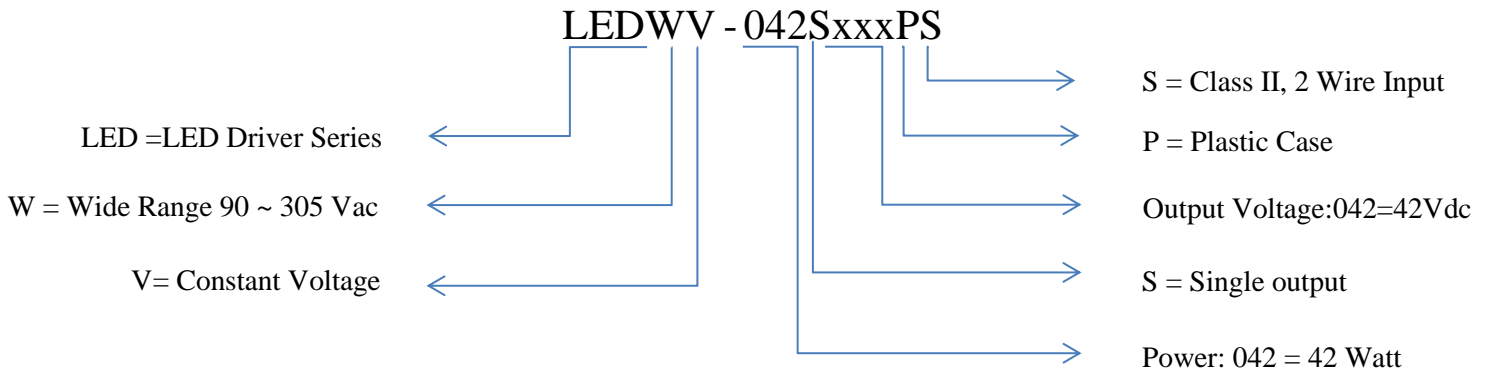
Efficiency at Various Loads



Power Factor at Various Loads



PART NUMBER SCHEME



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