

FEATURES

- Ultra High Efficiency (Up to 93.5%)
- High Power Factor (0.99 Typical)
- Lighting Protection
- Over Voltage, Over Current, Over Temperature and Short Circuit Protection
- Waterproof (IP67)

250W Constant Voltage LED Driver

LEDWV-250 Series



SPECIFICATION

Model		LEDWV-250S012ST		LEDWV-250S024ST		LEDWV-250S028ST		LEDWV-250S036ST			
Output	Output Voltage		12 Vdc		24 Vdc		28 Vdc		36 Vdc		
	Current Range		0~18.33 A		0~10.41 A		0~8.93 A		0~6.94 A		
	Ripple & Noise		2% Vo								
	Line Regulation		±1%								
	Load Regulation		±3%								
	Turn-on Delay Time		0.2s Typ. Measured at 120Vac input. / 0.2s 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		0.75 mA at 277Vac 60Hz input								
	Voltage		90~305V								
	Frequency		47-63Hz								
	PF	120Vac	0.99		0.99		0.99		0.99		
		220Vac	0.93		0.96		0.96		0.96		
	THD		20%								
	Inrush Current		150A at 220Vac input, ,25°C cold start, duration=3ms, 10%lpk-10%lpk								
AC Current		3.0A measured at full load and 100 Vac input. / 1.4A 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 Auto recovery after power supply cools								
	Over Voltage		Latch mode. The power supply shall return to normal operation after recycling AC.								
	Over Current		165%Io Hiccup mode. The power supply shall self-recover when the fault condition is removed.								
Environmental	Temperature Range		Operating	-40°C - +70°C							
			Storage	-40°C - +85°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		250,000 hours								
	Life Time		12V= 59,400 hours / 42V 120,000 hours								
	Dimension		Inches (L*W*H) 8.82*3.46*1.32 Millimeters (L*W*H) 224*88*33.5								
	Weight		1300 g								



FEATURES

250W Constant Voltage LED Driver

LEDWV-250 Series

- Ultra High Efficiency (Up to 93.5%)
- High Power Factor (0.99 Typical)
- Lighting Protection
- Over Voltage, Over Current, Over Temperature and Short Circuit Protection
- Waterproof (IP67)

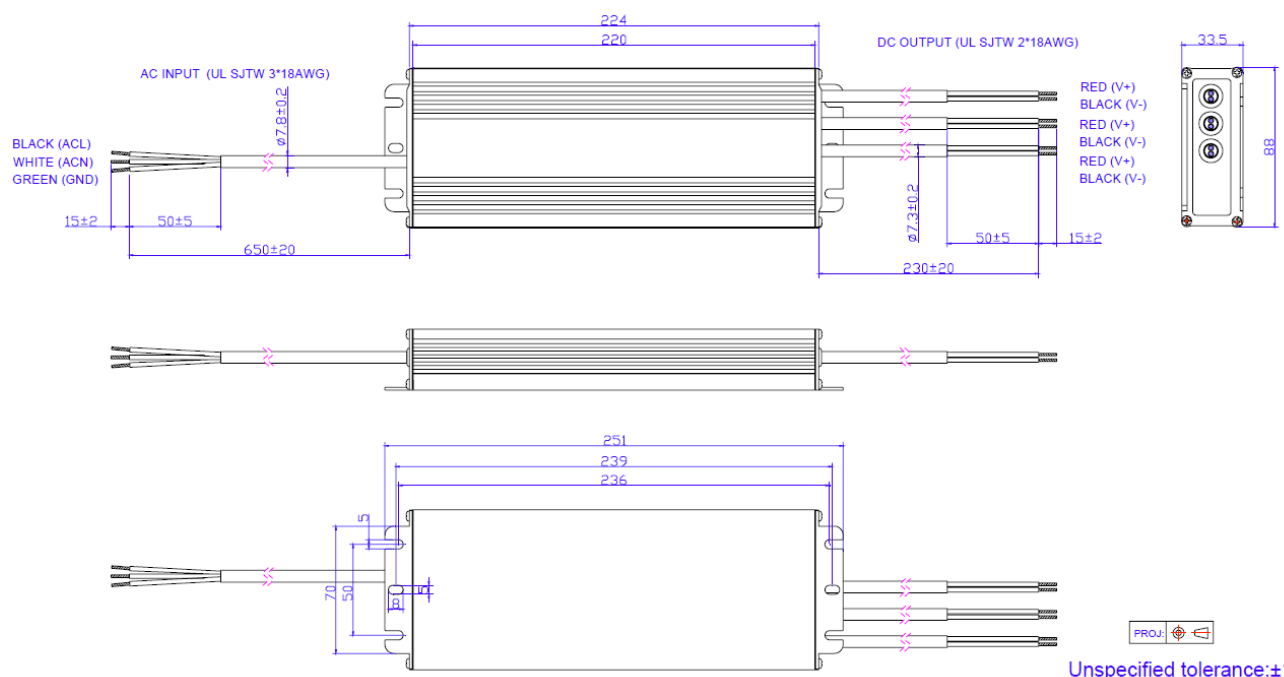


SPECIFICATION

Model		LEDWV-250S042ST		LEDWV-250S048ST		LEDWV-250S054ST		
Output	Output Voltage		42 Vdc		48 Vdc		54 Vdc	
	Current Range		0~5.95 A		0~5.20 A		0~4.62 A	
	Ripple & Noise		2% Vo					
	Line Regulation		±1%					
	Load Regulation		±3%					
	Turn-on Delay Time		0.2s Typ. Measured at 120Vac input. / 0.2s 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		0.75 mA at 277Vac 60Hz input					
	Voltage		90~305V					
	Frequency		47-63Hz					
	PF	120Vac	0.99		0.99		0.99	
		220Vac	0.96		0.96		0.96	
	THD		20%					
	Inrush Current		150A at 220Vac input, ,25°C cold start, duration=3ms, 10%lpk-10%lpk					
AC Current (Typ.)		3.0A measured at full load and 100 Vac input. / 1.4A 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 Auto recovery after power supply cools					
	Over Voltage		Latch mode. The power supply shall return to normal operation after recycling AC.					
	Over Current		165%Io Hiccup mode. The power supply shall self-recover when the fault condition is removed.					
Environmental	Temperature Range		Operating	-40°C - +70°C				
			Storage	-40°C - +85°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		250,000 hours					
	Life Time		12V= 59,400 hours / 42V 120,000 hours					
	Dimension		Inches (L*W*H) 8.82*3.46*1.32 Millimeters (L*W*H) 224*88*33.5					
	Weight		1300 g					

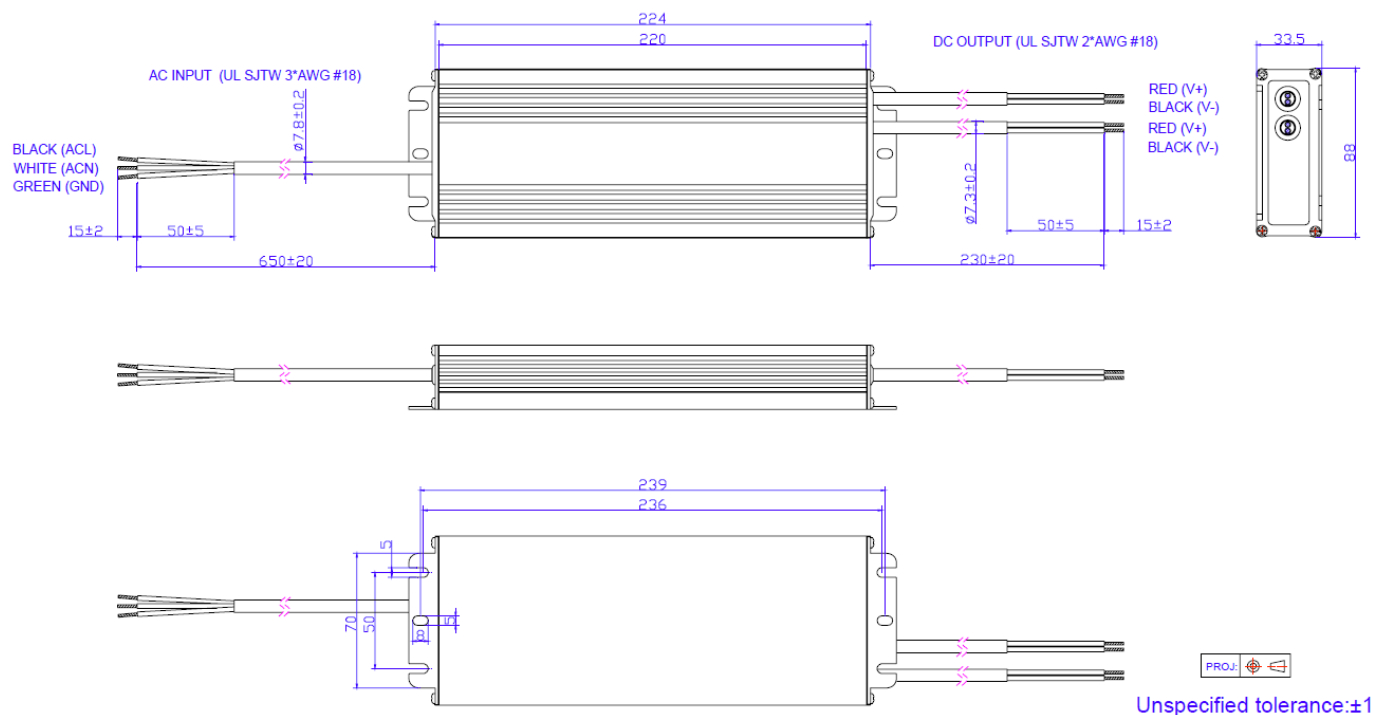


Mechanical Specification LEDWV-250S012ST



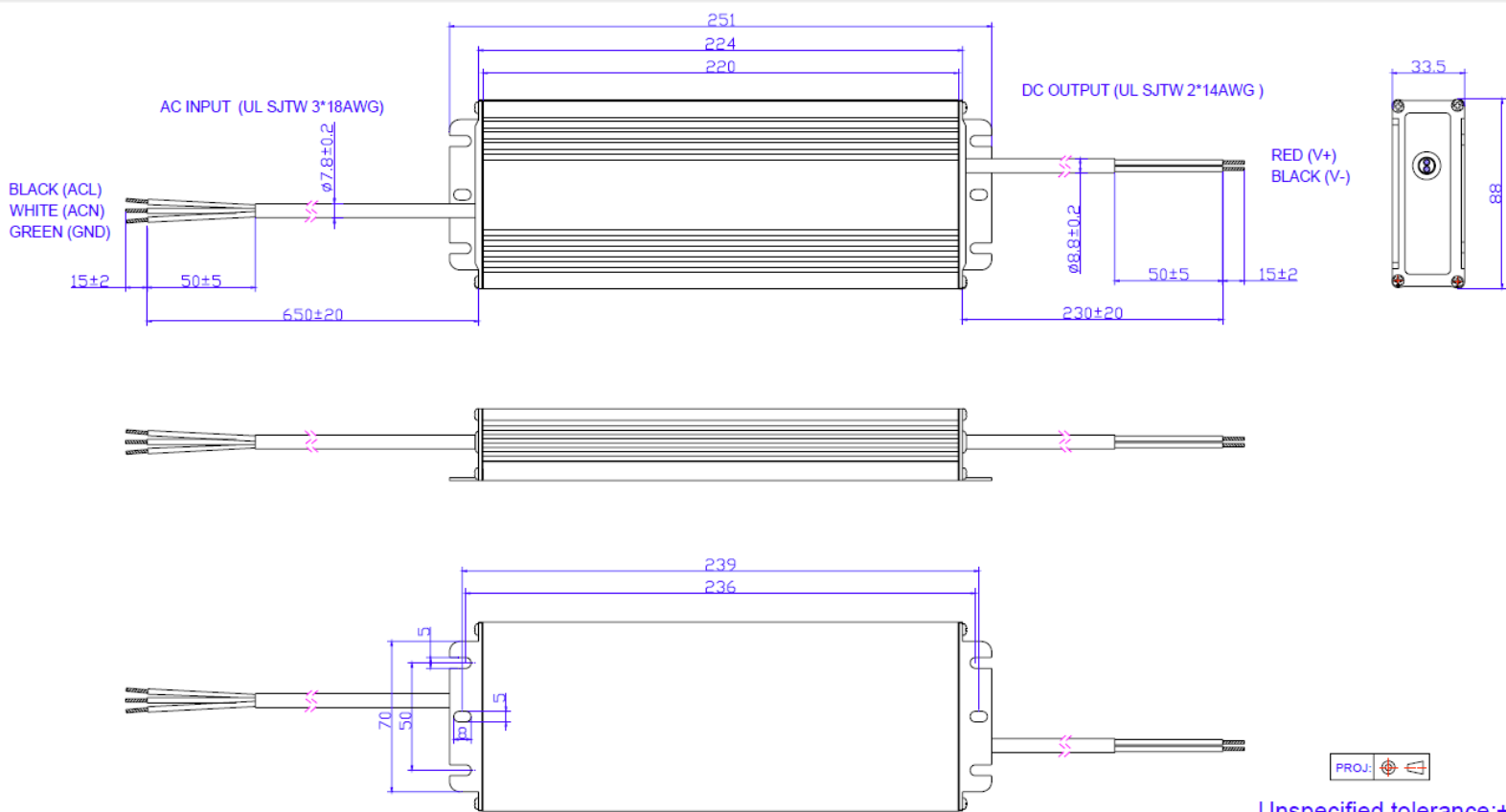
Note: The 3 DC output cables are connected in parallel internally because one AWG#18 wire can only carry 10A. Please connect the 3 red wires together and 3 black wires together in application, or ensure each cable carries same current.

LEDWV-250S024ST / LEDWV-250S036ST



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

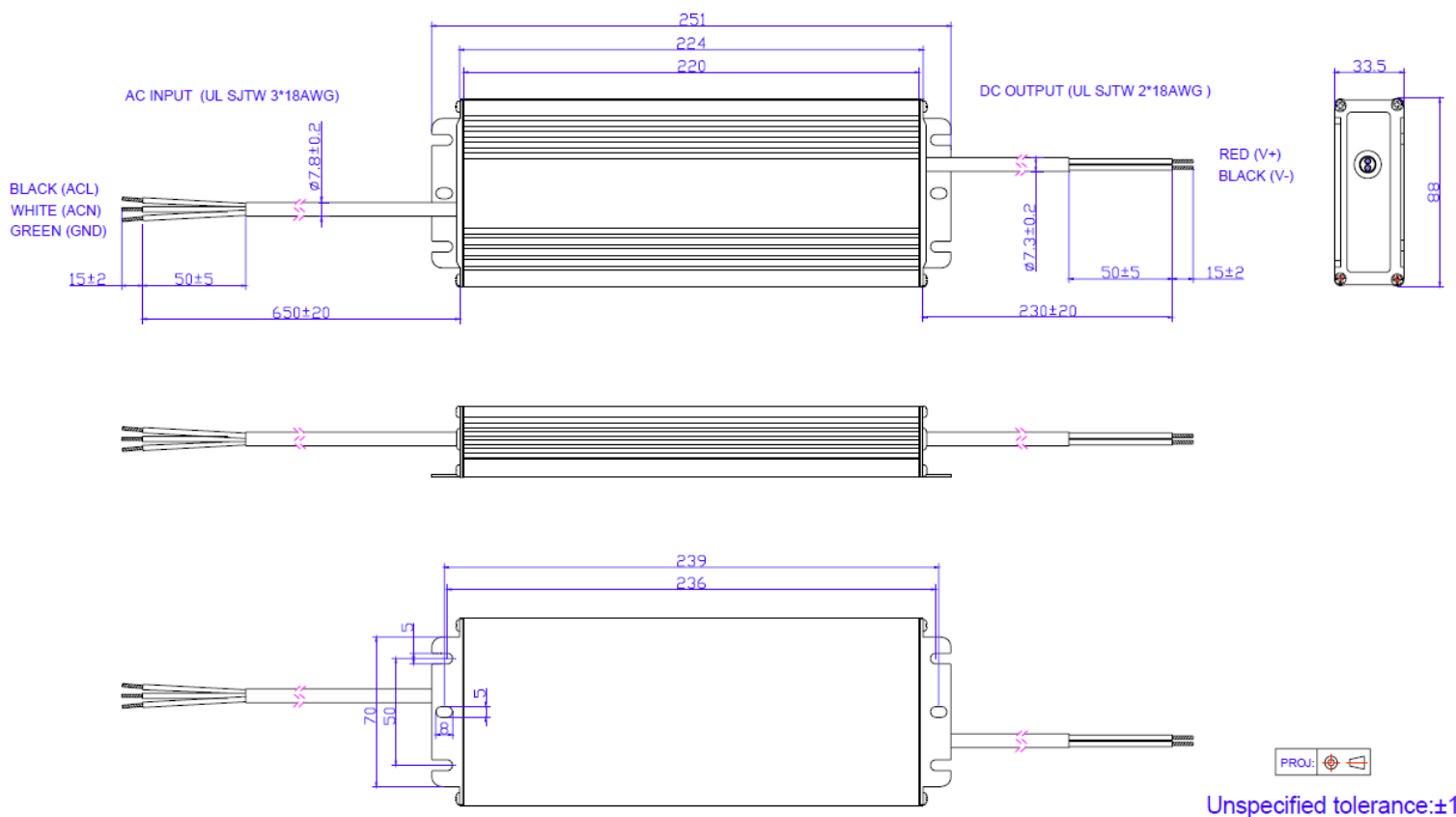
LEDWV-250S028ST



Unspecified tolerance: ±1



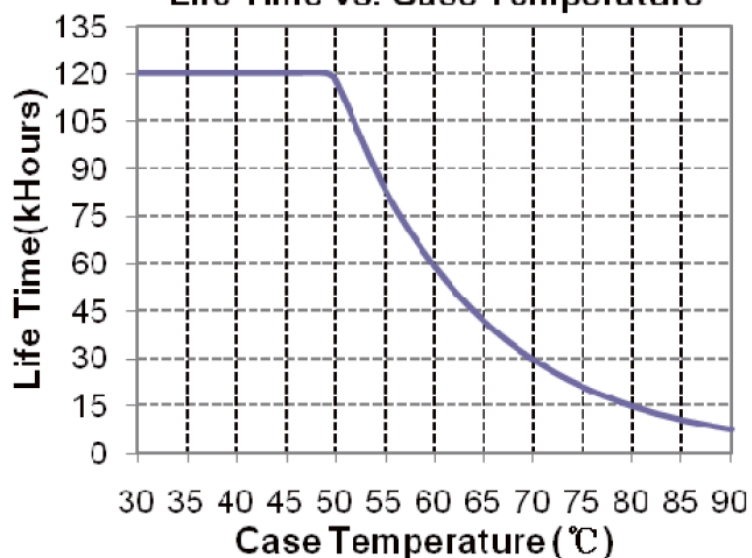
LEDWV-250S042ST / LEDWV-250S048ST / LEDWV-250S054ST



Life Time vs. Temperature Curves

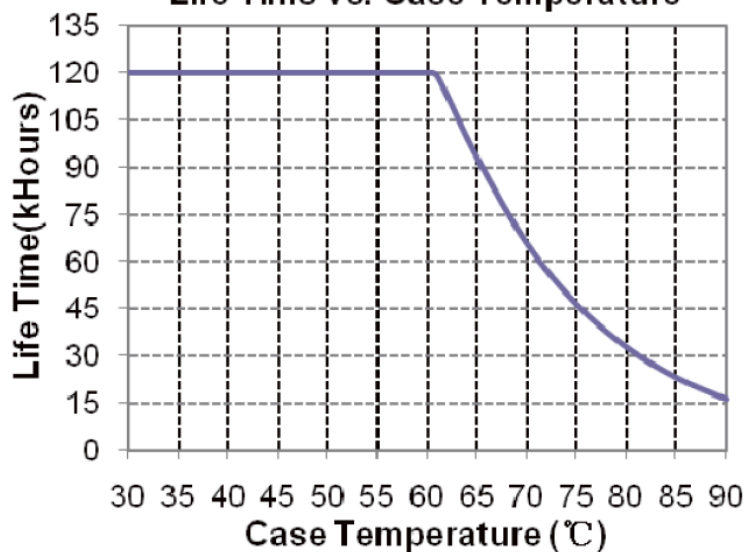
250S012ST

Life Time vs. Case Temperature

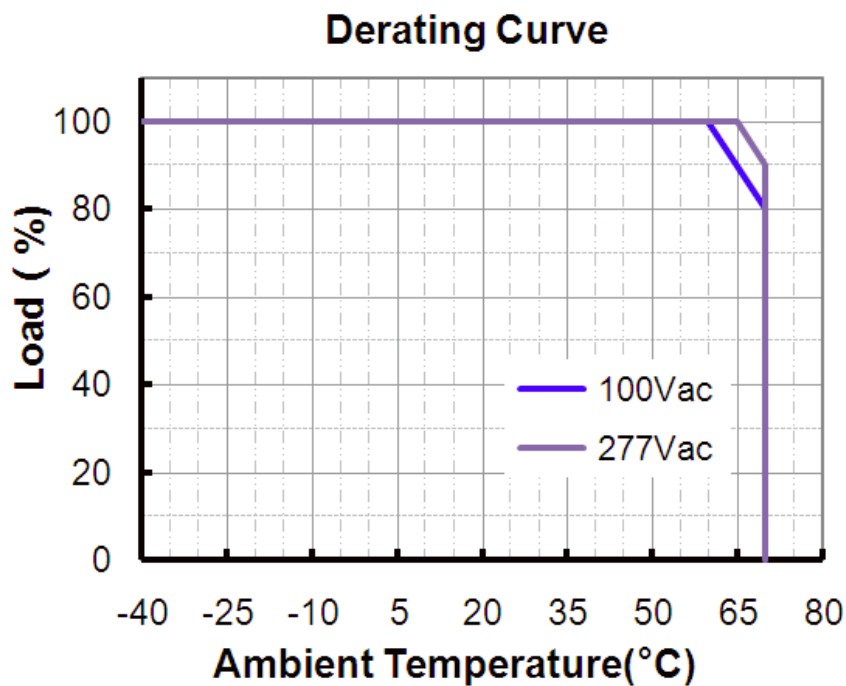


250S042ST

Life Time vs. Case Temperature



Derating Curve



PART NUMBER SCHEME

LEDWV-250S012ST

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

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE
AUTECH IS NOT RESPONSIBLE FOR ISSUES ARISING FROM ERRORS OR OMMISIONS

