

200W Constant Voltage LED Driver LEDUV-200 series

FEATURES

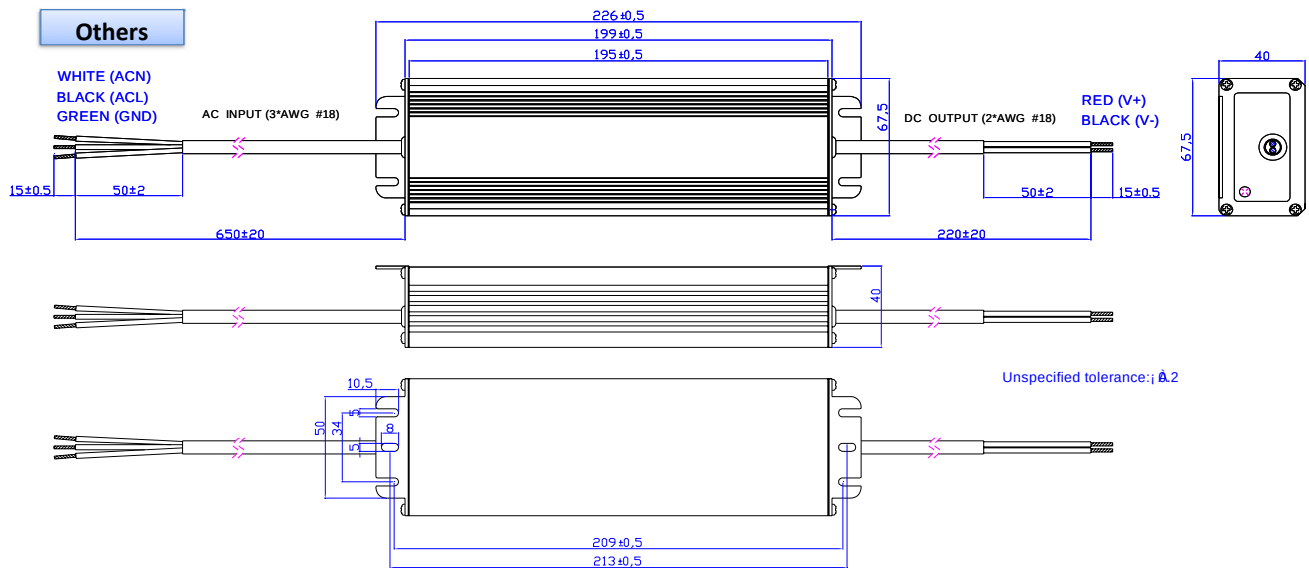
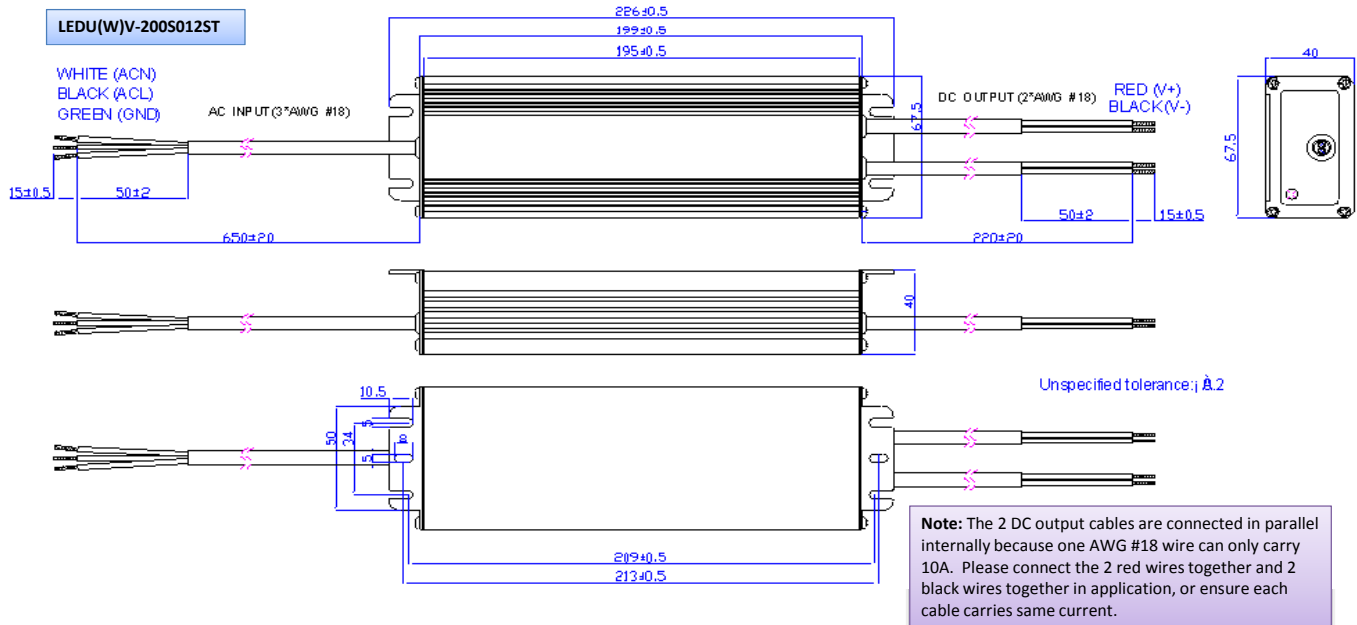
- Ultra High Efficiency (Up to 93%)
- High Power Factor Correction (0.99 Typ)
- 200 W Continuous Output Power
- Lightning Protection
- Over Voltage, Over Temp. , Short Circuit & Over current Protection
- Waterproof (IP67)
- Comply UL8750 & EN61347 Safety Regulations
- Very High MTBF & Life Time



SPECIFICATION

Model		LEDU(W)V-200S012ST	LEDU(W)V-200S024ST	LEDU(W)V-200S036ST	LEDU(W)V-200S042ST	LEDU(W)V-200S048ST	LEDU(W)V-200S050ST	LEDU(W)V-200S052ST	LEDU(W)V-200S054ST	LEDU(W)V-200S081ST	LEDU(W)V-200S105ST
Output	Voltage	12 Vdc	24 Vdc	36 Vdc	42 Vdc	48 Vdc	50 Vdc	52 Vdc	54 Vdc	81 Vdc	105 Vdc
	Max. Current	15.0A	8.33 A	5.56 A	4.76 A	4.17 A	4.00 A	3.84 A	3.70 A	2.47 A	1.90 A
	Rated Power	180 W	200 W	200 W	200 W	200 W	200 W	200 W	200 W	200 W	200 W
	Voltage Tolerance	±5%									
	Ripple & Noise (max.) (2)	2.0 % Vo									
	Current Range (Min - Max)	0 - 15 A	0 - 8.33 A	0 - 5.56 A	0 - 4.76 A	0 - 4.17 A	0 - 4.00 A	0 - 3.84 A	0 - 3.70 A	0 - 2.47 A	0 - 1.90 A
	Line Regulation	1%									
	Load Regulation	2%									
	Setup, Rise Time	0.7S @ 110 VAC or 0.3S @ 220 VAC									
Output Overshoot / Undershoot	10% When Power On or Off										
Input	Voltage Range	U (Universal Input) = 90V ~ 264VAC Or W (Wide Range Input) = 90V ~305VAC									
	Frequency Range	47Hz / 63Hz									
	Power Factor Correction	0.99 @ 110 VAC and 0.97 at 220 VAC									
	Efficiency (Typ.) at 230Vac	91%	92%	92.5%	92.5%	92.5%	92.5%	93%	93%	93%	93%
	Inrush Current	65A @ 230VAC Input and 25°C									
	AC Current (Typ.)	2.3 A / 100VAC 1.1 A / 220VAC									
Protections	Short Circuit Protection	Protection type : Hiccup mode, recovers automatically after fault condition is removed									
	Over Temperature Protection	120°C max. temp. of components inside the case									
	Over Current Protection	130% Io (Typ.) Protection type : Hiccup mode, recovers automatically after fault condition is removed									
	Over Voltage (Typ.)	16 V	32 V	48 V	56 V	63 V	65 V	70 V	72 V	108 V	140 V
Environmental	Temperature Range	Operational	-35°C ~ 70°C								
		Storage	- 40 ~ +85°C								
	Humidity	Operational	10 ~ 100% RH								
		Storage	5 ~100% R.H								
Safety & EMC	Safety Standards	UL8750 compliance to UL1012 UL935, CSA-C22.2 (No. 0, No 107.1, No. 250.0)									
	No load Power Dissipation	≤2.0W									
	Withstand Voltage	I/P - O/P: 3KVAC (4242 DC) I/P - FG: 1.5KVAC (2121 DC) O/P-FG: 0.5KVAC (707 DC), 1 minute									
	EMI Conduction & Radiation	EN55015 with 6db margin									
	CE	EN 61347-1, EN61347-2-13									
	EMS Immunity	EN61000-3-2 , EN61000-3-3, 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)	247K HRS Compliance: MIL-HDBK-217F @ 25°C ambient temp.									
	Life Time (4)	55,000 hours @ 45°C ambient temp.									
	Dimension (L*W*H)	199*67.5*40 (mm) - 7.83*2.66*1.57 (inch)									
	Weight	1000 g - 2.20Lbs									

Mechanical Specification

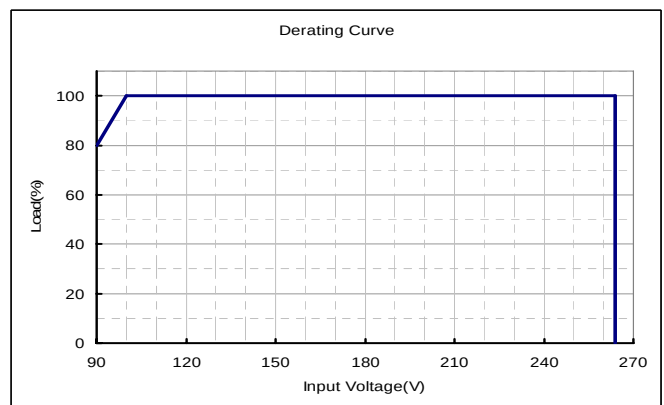
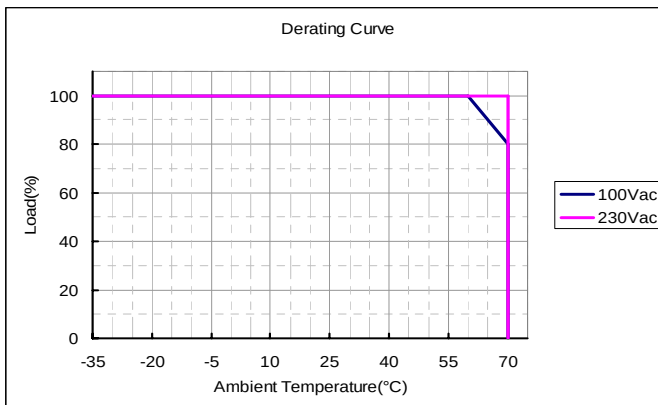


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Efficiency @ Full Load and 115VAC (min)	88%	89%	89.5%	89.5%	89.5%	89.5%	90%	90%	90%	90%
Efficiency @ Full Load and 115VAC (typ)	89%	90%	90.5%	90.5%	90.5%	90.5%	91%	91%	91%	91%
Efficiency @ Full Load and 230VAC (min)	90%	91%	91.5%	91.5%	91.5%	91.5%	92%	92%	92%	92%
Efficiency @ Full Load and 230VAC (typ)	91%	92%	92.5%	92.5%	92.5%	92.5%	93%	93%	93%	93%

PIN ASSIGNMENT		
CONNECTION	AC	DC
	Input	Output
PIN 1	LINE (Black)	+V (Red)
PIN 2	NEUTRAL (White)	-V (Black)
PIN 3	GROUND (Green)	
Connector	Flying lead (stripped and tinned)	

SHIPPING SPECIFICATIONS				
Series	UNITS PER CARTON	CARTON WEIGHT		
LEDUV-200	20.0	26Kg	57.20Lbs	
INDIVIDUAL BOX DIEMENSION		WIDTH	LENGTH	HEIGHT
Series	inch	7.68	2.68	1.57
LEDUV-200	mm	195.0	68.0	40.0

Derating Curve



NOTES:

1. Measured at full load, 220VAC input and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth oscilloscope and the output paralleled a 0.1uf ceramic capacitor & 10 uf electrolytic capacitor.
3. For 54V output model, measured at 110VAC input, 80%load and 25°C of ambient temperature.
4. For 54V output model, measured at 220VAC input, 80%load and 45°C of ambient temperature.
5. All parameters NOT specially mentioned are measured at 220VAC input, rated load and 25°C of ambient temperature.
6. Specifications are subject to change without notice. AUTECH cannot be held liable for errors or omissions or the consequences thereof.
7. A suffix -XXXX may be added to denote variation or modifications to the base product, where X can be any alphanumeric character or blank.
8. **RoHS Compliance:** Our products comply with the European Directive 2002/95/EC, calling for the elimination of lead and other hazardous substances from electronic products.