

FEATURES

- Ultra High Efficiency (Up to 92%)
- Active Power Factor Correction
- Waterproof (IP67)
- Lightning Protection
- Over Voltage, Over Temp. & Short Circuit Protection
- Comply UL8750 & EN61347 Safety Regulations
- Very High MTBF & Life Time



SPECIFICATION

Model		LEDWC-120S035ST	LEDWC-120S045ST	LEDWC-120S070ST	LEDWC-120S105ST	LEDWC-120S140ST	LEDWC-120S175ST	LEDWC-120S210ST
Output	Rated Current (1)	350 mA	450 mA	700 mA	1050 mA	1400 mA	1750 mA	2100 mA
	Current Range (Min - Max) mA	332 - 368	427 - 473	665 - 735	997 - 1102	1330 - 1470	1662 - 1837	1995 - 2205
	Rated Power	120W	120W	120W	120W	120W	120W	120W
	Ripple & Noise (max.) (2)	3% Pk -Pk						
	Max. Voltage	343 Vdc	266 Vdc	171 Vdc	114 Vdc	86 Vdc	68 Vdc	57 Vdc
	Voltage Range (Min - Max) Vdc	206 - 343	160 - 266	103 - 171	68 - 114	52 - 86	41 - 68	34 - 57
	Line Regulation	1%						
	Load Regulation	5%						
	Setup, Rise Time	0.6 S						
	Output Overshoot / Undershoot	10% When Power On or Off						
Input	Voltage Range	90V ~ 305VAC						
	Frequency Range	47Hz / 63Hz						
	Efficiency (Typ.) at 230Vac	92%	92%	92%	91%	91%	91%	91%
	Inrush Current	65A @ 230VAC Input and 25°C						
	Power Factor Correction	0.99 @ 110 Vac & 0.96 @ 220 Vac						
	AC Current (Typ.)	1.5 A / 100VAC			0.7A / 220VAC			
Protections	Short Circuit Protection	Protection type : Hiccup mode, recovers automatically after fault condition is removed						
	Over Temperature Protection	110°C Max. temp. of component inside the case						
	Over Voltage (Typ.)	446	346	222	148	112	88	74
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 UL1310 Class 2 UL1012 UL935, CSA-C22.2 (No. 0, No 107.1, No. 250.0)						
	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						
	Isolation Resistance	I/P - O/P, I/P - FG, O/P - FG: 100M Ohms / 500VDC						
	EMI Conduction & Radiation	EN55015 with 6db margin						
	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)	460K HRS Compliance: MIL-HDBK-217F @ 25°C ambient temp.						
	Life Time (4)	80,000 hours @ 45°C ambient temp.						
	Dimension (L*W*H)	194*67.5*37 (mm) - 7.64*2.66*1.46 (inch)						
	Weight	1000 g - 2.2Lbs						



120W Constant Current LED Driver LEDWC-120 series

More Models

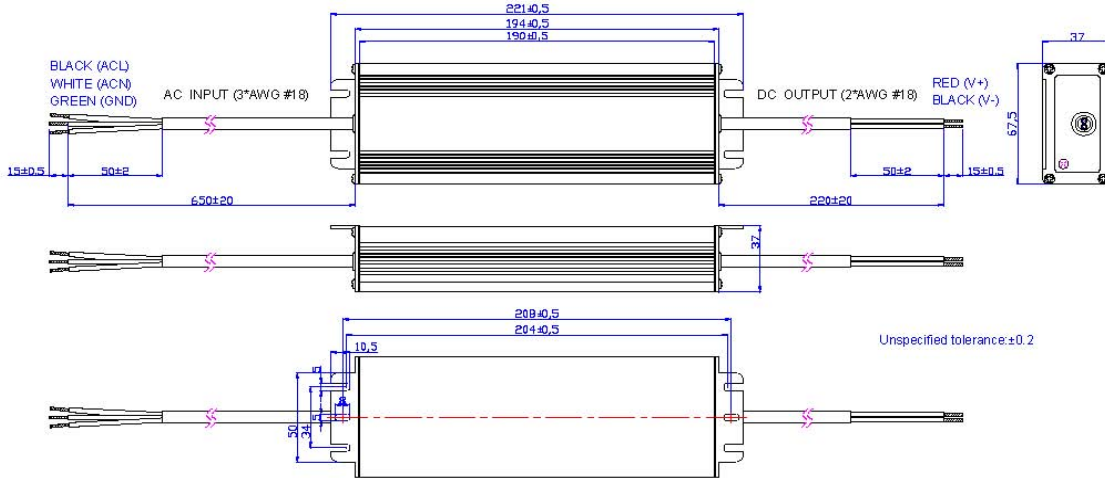
Model		LEDWC-120S245ST	LEDWC-120S280ST	LEDWC-120S315ST	LEDWC-120S350ST	LEDWC-120S420ST	LEDWC-120S490ST
Output	Rated Current (1)	2450 mA	2800 mA	3150 mA	3500 mA	4200 mA	4900 mA
	Current Range (Min - Max) mA	2375 - 2625	2660 - 2940	2992 - 3307	3325 - 3675	3990 - 4410	4655 - 5145
	Rated Power	120W	120W	120W	120W	120W	120W
	Ripple & Noise (max.) (2)	3% Pk - Pk					
	Max. Voltage	49 Vdc	43 Vdc	38 Vdc	34 Vdc	28 Vdc	24 Vdc
	Voltage Range (Min - Max) Vdc	29 - 49	26 - 43	23 - 38	20 - 34	17 - 28	14 - 24
	Line Regulation	1%					
	Load Regulation	5%					
	Setup, Rise Time	0.6 S					
	Output Overshoot / Undershoot	10% When Power On or Off					
Input	Voltage Range	90V ~ 305VAC					
	Frequency Range	47Hz / 63Hz					
	Efficiency (Typ.) at 230Vac	91%	91%	90.5%	90.5%	90.5%	90.5%
	Inrush Current	65A @ 230VAC Input and 25°C					
	Power factor Correction	0.99 @ 110 Vac & 0.96 @ 220 Vac					
	AC Current (Typ.)	1.5 A / 100VAC		0.7A / 220VAC			
Protections	Short Circuit Protection	Protection type : Hiccup mode, recovers automatically after fault condition is removed					
	Over Temperature Protection	110°C Max. temp. of component inside the case					
	Over Voltage (Typ.)	64V	56V	49V	44V	36V	31V
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 UL1310 Class 2 UL1012 UL935, CSA-C22.2 (No. 0, No 107.1, No. 250.0)					
	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					
	Isolation Resistance	I/P - O/P, I/P - FG, O/P - FG: 100M Ohms / 500VDC					
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Others	MTBF (3)	460K HRS Compliance: MIL-HDBK-217F @ 25°C ambient temp.					
	Life Time (4)	80,000 hours @ 25°C ambient temp.					
	Dimension (L*W*H)	194*67.5*37 (mm) - 7.64*2.66*1.46 (inch)					
	Weight	1000 g - 2.2Lbs					

Model	LEDWC-120S035ST	LEDWC-120S045ST	LEDWC-120S070ST	LEDWC-120S105ST	LEDWC-120S140ST	LEDWC-120S175ST	LEDWC-120S210ST
Efficiency @ Full Load and 115VAC (min)	89.0%	89.0%	89.0%	88.0%	88.0%	88.0%	88.0%
Efficiency @ Full Load and 115VAC (typ)	90.0%	90.0%	90.0%	89.0%	89.0%	89.0%	89.0%
Efficiency @ Full Load and 230VAC (min)	91.0%	91.0%	91.0%	90.0%	90.0%	90.0%	90.0%
Efficiency @ Full Load and 230VAC (typ)	92.0%	92.0%	92.0%	91.0%	91.0%	91.0%	91.0%

Model	LEDWC-120S245ST	LEDWC-120S280ST	LEDWC-120S315ST	LEDWC-120S350ST	LEDWC-120S420ST	LEDWC-120S490ST
Efficiency @ Full Load and 115VAC (min)	88.0%	88.0%	87.5%	87.5%	87.5%	87.5%
Efficiency @ Full Load and 115VAC (typ)	89.0%	89.0%	88.5%	88.5%	88.5%	88.5%
Efficiency @ Full Load and 230VAC (min)	90.0%	90.0%	89.5%	89.5%	89.5%	89.5%
Efficiency @ Full Load and 230VAC (typ)	91.0%	91.0%	90.5%	90.5%	90.5%	90.5%

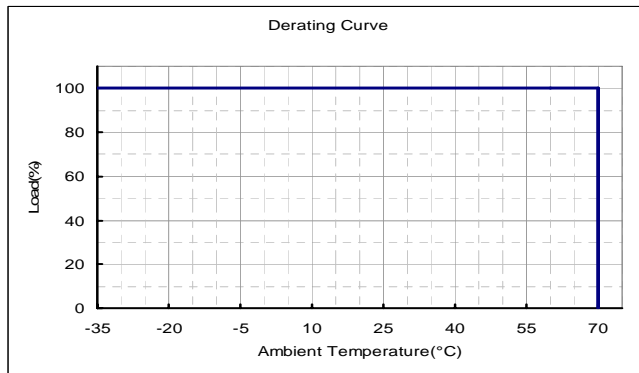


■ Mechanical Specification



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		
LEDWC-120	20.0	24Kg	52.91Lbs	
OUTER CARTON DIEMENSION		WIDTH	LENGTH	HEIGHT
Series	inch	22.05	24.80	6.69
LEDWC-120	mm	560.0	630.0	170.0



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 1400mA output model, measured at 110VAC input, 80%load and 25°C of ambient temperature.
4. For 1400mA 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.
5. Specifications are subject to change without notice. AUTECH cannot be held liable for errors or omissions or the consequences thereof.
6. A suffix -XXXX may be added to denote variation or modifications to the base product, were X can be any alphanumeric character or blank