



Specification Data

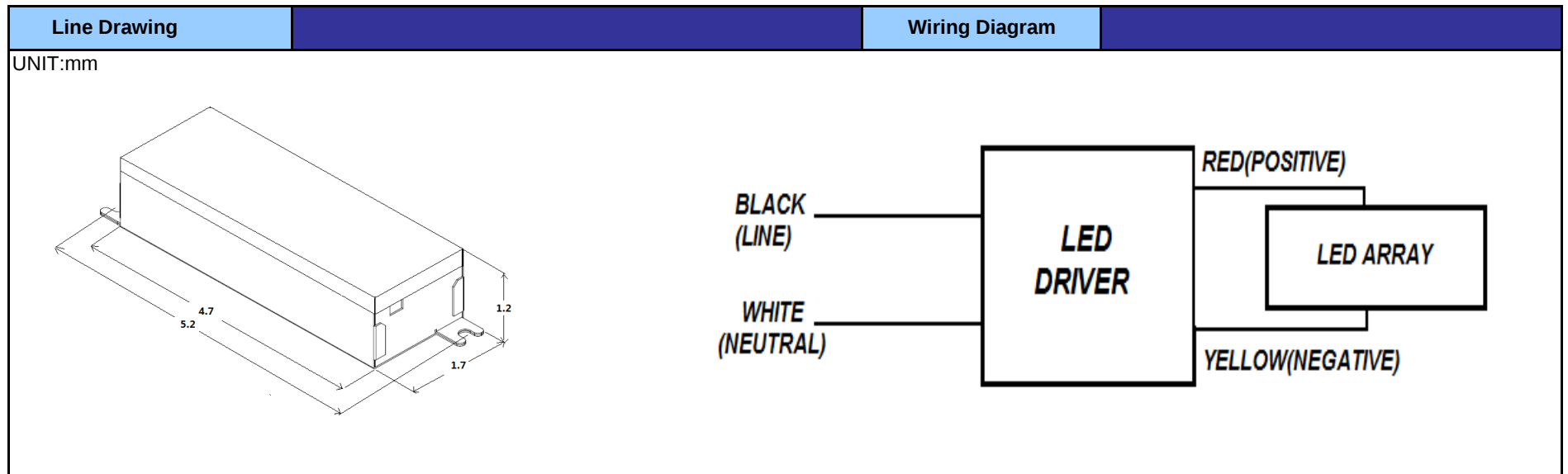
Espen Generic Part No.	0201000169
Espen Generic Model No.	VEL40245120HDA-1(25)

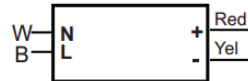
Output	Rated Current	2450mA		
	Operating Voltage Range (min. ~ max.)	16-18V		
	Rated Power (Max @W)	45W		
	Output Current ripple(ripple = pk-pk/avg)	10% @2450mA		
	Start Time (Max. ms @ VAC)	<300ms / @ 120Vac		
	Output Current Regulation (%)	+ 5%		

Input	Frequency Range	50/60 Hz		
	Input Voltage Range	120 VAC (±10%)		
	Power Factor (Min.)	0.95		
	THD (Max.)	20%		
	Efficiency (typ. %@120V Full load)	82%~84%		
	Input AC Current (Max. @ VAC)	0.47A @ 120VAC at full load		
	Inrush Current (Max.)	20A @120VAC (cold start, µs at 50% Ipeak)		
	Leakage Current (Max. @ VAC)	0.75mA /120VAC		

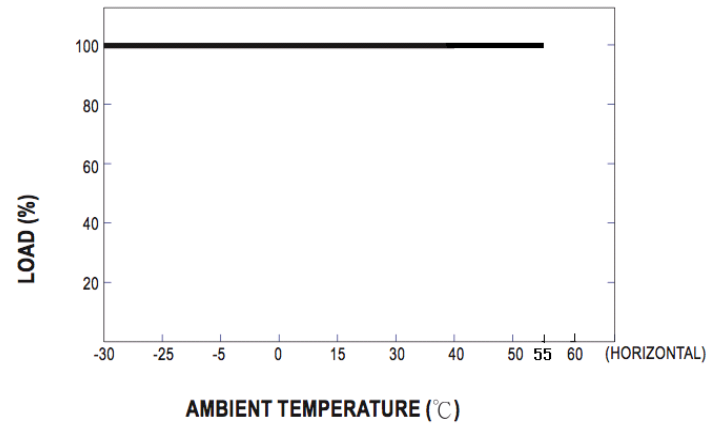
General Specifications		Data	Notes
	Dimming Type	Phase Dimming	Leading edge cut dimming
	Dimming Range	5% ~ 100%	
	MTBF	>200,000 hours	Measured at 120VAC, 80% load, 25°C ambient (MIL-HDBK-217F)
	Max. Case Temp.	85°C	
	Life Rating (@ 100%Load, @ 85°C Tc.)	50,000 hours	Measured at 120VAC, 80% load, 55°C ambient temp.
	Warranty	5-years Limited Warrant	

Protection	Type				
	Over Power	The driver always works within a safe working area power curve			
	No Load Voltage (% min. ~ max.)	Vomax ~ 110% Vomax			
	Short Circuit	Disconnect the power to restart after fault condition is removed			
	Input Transient Protection	Power supply shall comply with IEEE C.62.41-1991, Class A operation. The line transient shall consist of seven strikes of a 100 kHz ring wave, 2.5kV level for both common mode and differential mode.			
	Others	SCP, OVP			
Environmental	Operating Temperature (min. ~ max.)	-30 ~ +50°C			
	Storage Temperature (min. ~ max.)	-40~ +80°C			
	Operating Humidity	20 ~ 95% RH			
	Storage Humidity	10 ~ 95% RH			
	Temperature Coefficient (%/C)	±0.03% / °C (0~50°C)			
	Application	For Dry and Damp location			
Safety & EMC	Safety Standards	UL, cUL, UL8750 Class 2			
	Audible sound Level	<24dB (30 cm)			
	EMI/EMC Standards	FCC Part 15 Class B, Compliance to EN 61547/1995+A1/2000			
Physical Parameters		L	W	H	M
	Dimensions (inches)	4.7"	1.7"	1.2"	5.2"
	Net Weight (lbs.)	0.75 lbs.			
	Input Leads (AWG, Length)	Line	黑色多股18AWG 105° C 600V外露 250mm 全剥 10mm沾锡		
		Neutral	白色多股 18AWG 105° C 600V外露 250mm 全剥 10mm沾锡		
	Output Leads (Color, AWG, Length)	Positive	红色多股 18AWG 105° C 600V外露 100mm 全剥 5mm沾锡		
		Negative	黄色多股 18AWG 105° C 600V 外露 100mm 全剥 5mm沾锡		
	Packaging	QTY/CTN		Dimensions (in.)	Weight (lbs.)

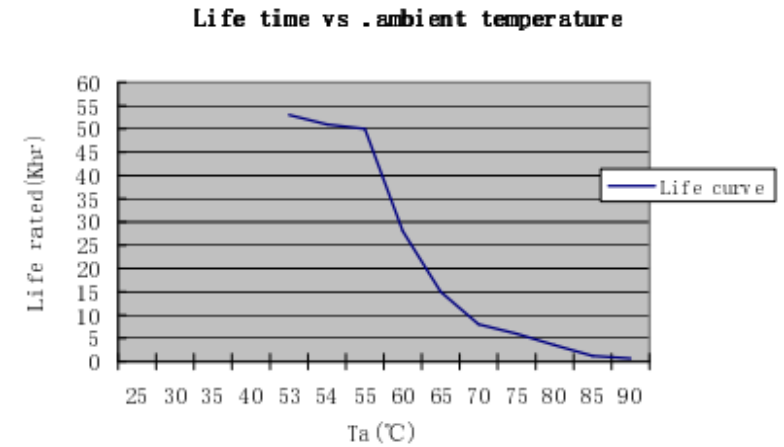


Tc test point placement	
 Santa Fe Springs, CA CAUTION DISCONNECT LINE VOLTAGE BEFORE INSTALLING OR REPLACING. CASE MUST BE GROUNDED. Toll Free: 1-866-933-7736 www.espentech.com	CONSTANT CURRENT Dimmable LED Driver 120V 60Hz Class 2 Power Supply Dry or Damp Location Only Type HL Ta:40 VEL40245120HDA-1 In: 49W , 410mA Out: 16V , 2450mA PF: >0.90 Type TL 82/77°C  tc =85°C max Made in China RoHS CULUS E339538

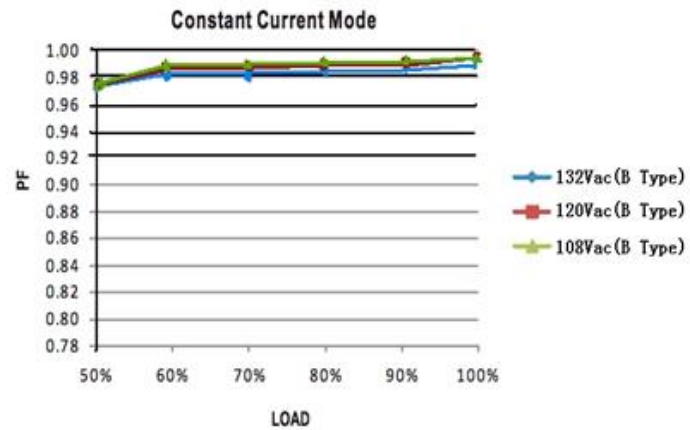
Derating Curve



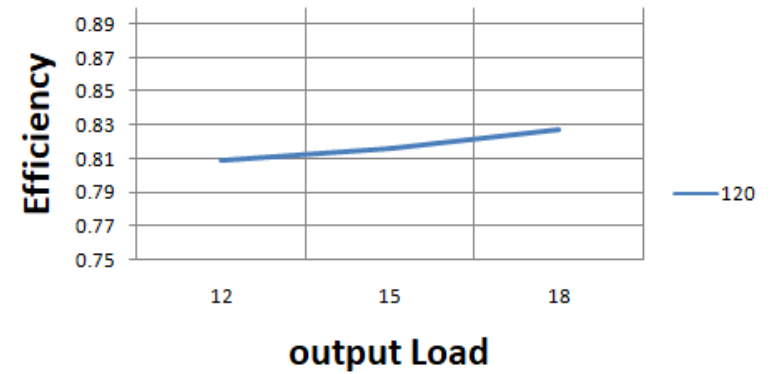
Life vs. Ambient Temp



Power Factor Characteristics



Efficiency vs. Load





Dimmer Compatability List	Dimmer Manufacturer	Dimmer Model No.
	Lutron	DVCL-153PL
	Leviton	IPI06
	Leviton	6631
	Lutron	CTCL-153P