

Espen Technology, Inc.



Specification Data

Espen Generic Part No.	0202000015
Espen Generic Model No.	VEL75200MVHDA-10V-1

Output	Rated Current	2000 mA		
	Operating Voltage Range (min. ~ max.)	28-36V		
	Rated Power (Max @W)	75W		
	Output Current ripple(ripple = pk-pk/avg)	6% @ 2000mA		
	Start Time (Max. ms @ VAC)	1000ms / 120VAC at full load		
	Output Current Regulation (%)	± 5%@2000mA		
	Output Dimming Range (%)	10%~100%		

Input	Frequency Range	47 ~ 63 Hz		
	Input Voltage Range	120 ~277VAC (±10%)		
	Power Factor (Min.)	0.9 at full load		
	THD (Max.)	20%		
	Efficiency (typ. %@120/277V at full load)	87.0%		
	Input AC Current (Max. @ VAC)	1.2A @ 108VAC at full load		
	Inrush Current (Max.)	70A @277VAC (cold start, µs at 50% Ipeak)		
	Leakage Current (Max. @ VAC)	0.75mA / 277VAC		

General Specifications		Data	Notes
	Dimming Type	DC DIMMING	0~10v
	Dimming Range	10% ~ 100%	
	0-10v Dimming Interface Current	<2mA	
	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 120/277VAC, 100% load, 85°C Tc.
	Warranty	5-years Limited Warranty	

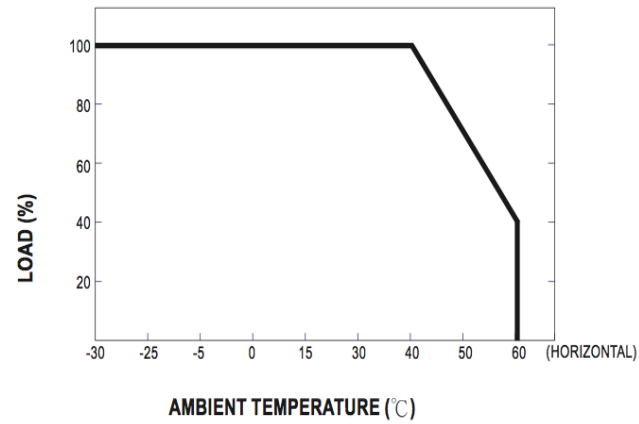
Protection	Type	
	Over Power	the driver always works within a safe working area power curve
	No Load Voltage (% min. ~ max.)	Vomax ~ 110% Vomax
	Short Circuit	Disconnect the power to restart after fault condition is removed
	Input Transient Protection	Power supply shall comply with IEEE C.62.41-1991,Class 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 ~ +55°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
	EMI/EMC Standards	FCC Part 15 Class A, Compliance to EN 61547/1995+A1/2000

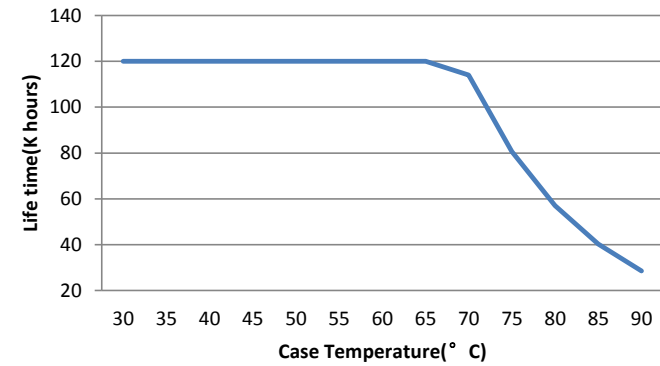
Physical Parameters		L	W	H	M		
	Dimensions (inches)	9.5"	1.7"	1.2"	8.91"		
	Net Weight (lbs.)	1 lbs.					
	Input Leads (AWG, Length)	Line	Black single 18AWG 105°C 600V length 500mm(+/-25mm) wire stripping 10mm(+/-1mm)				
		Neutral	White single 18AWG 105°C 600V length 500mm(+/-25mm) wire stripping 10mm(+/-1mm)				
	Output Leads (Color, AWG, Length)	Positive	Red single 20AWG 105°C 600V length 800mm(+/-25mm) wire stripping 8mm(+/-1mm)				
		Negative	Blue single 20AWG 105°C 600V length 800mm(+/-25mm) wire stripping 8mm(+/-1mm)				
		Dimming+	Violet single 18AWG 105°C 600V length 800mm(+/-25mm) wire stripping 10mm(+/-1mm)				
		Dimming-	Gray single 18AWG 105°C 600V length 800mm(+/-25mm) wire stripping 10mm(+/-1mm)				
	Packaging	QTY/CTN		Dimensions (in.)		Weight (lbs.)	

Derating Curve



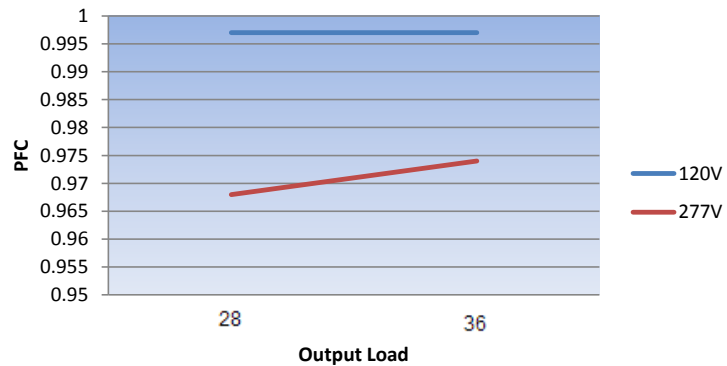
Life vs. Ambient Temp

Life time VS. Case Temperature



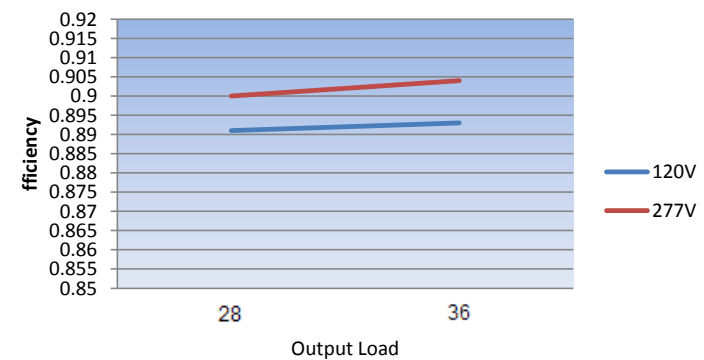
Power Factor Characteristics

PFC Curve

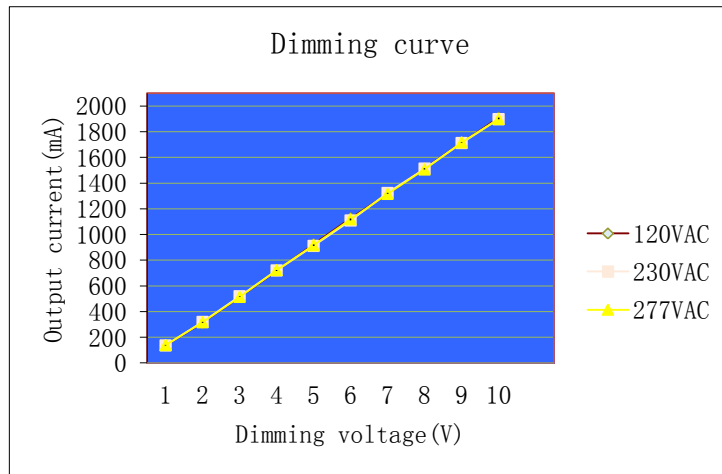


Efficiency vs. Load

Efficiency Curve



Dimming curve



Dimmer Compatability List	Dimmer Manufacturer	Dimmer Model No.
	EASEIC	EID110U
	LEVITON	AWSMT716