



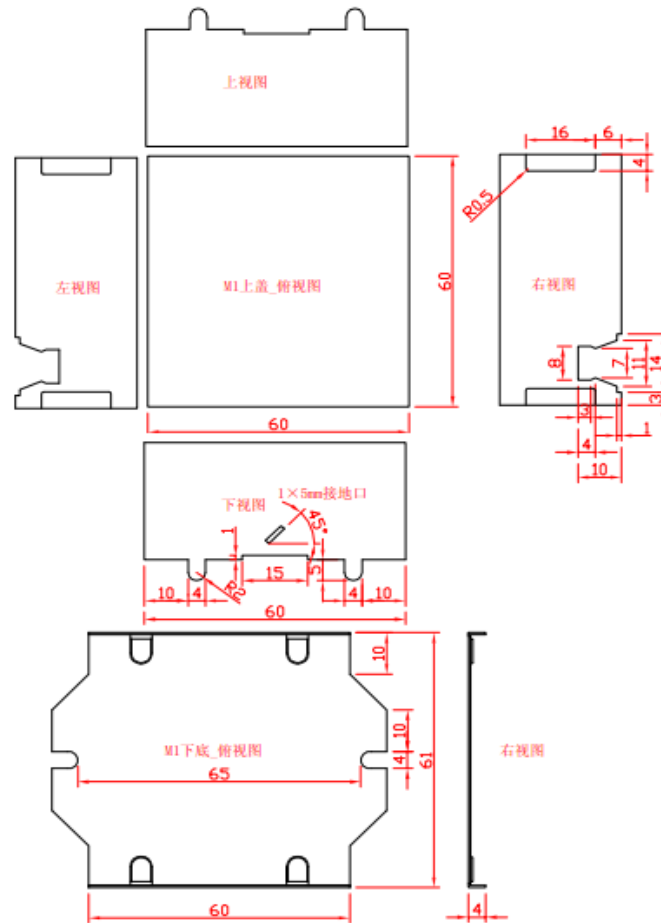
Specification

Espen Generic Part No.	
Espen Generic Model No.	VEL40180120H-1 (4)

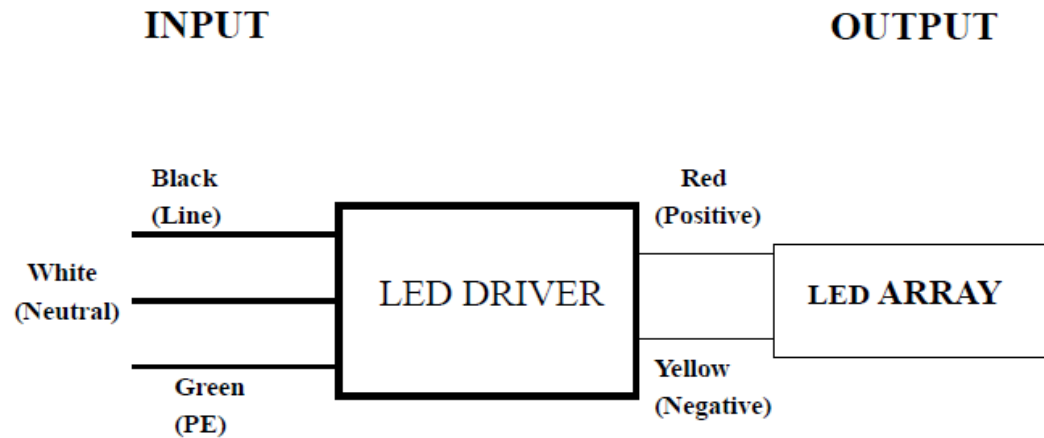
Output	Rated Current	1800mA		
	Operating Voltage Range (min. ~ max.)	12-22V		
	Rated Power (W)	40W		
	Ripple & Noise (Max.)	3.6Vp-p		
	Start Time (Max. ms @ VAC)	300ms / 120VAC at full load		
	Output Current Regulation (%)	± 5%		
Input	Frequency Range	50/60HZ		
	Input Voltage Range	120VAC+/-10%		
	Power Factor (Min.)	0.9 at full load		
	THD (Max.)	25%		
	Efficiency (typ. %)	83.0%		
	Input AC Current (Max. @ VAC)	410mA		
	Inrush Current (Max.)	10A @ 120VAC (cold start, μ s at 50% Ipeak)		
	Leakage Current (Max. @ VAC)	0.5mA / 120VAC		
General Specifications		Data	Notes	
	MTBF	>50,000 hours	Measured at 120VAC, 80% load, 25°C ambient (MIL-HDBK-217F)	
	Max. Case Temp.	85°C		
	Life Rating (@ Load %, @ ambient temp.)	50,000 hours	Measured at 120VAC, 80% load, 75°C case temp.	

Protection	Type					
	Short Circuit	Auto recovery after fault condition is removed				
	No Load Voltage (% min. ~ max.)	Vomax ~ 140% Vomax				
	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.)	-25 ~ +55°C				
	Storage Temperature (min. ~ max.)	-25 ~ +65°C				
	Operating Humidity	20 ~ 95% RH				
	Storage Humidity	10 ~ 95% RH				
	Temperature Coefficient (%/C)	±0.03% / °C (0~50°C)				
	IP Rating	IP20				
Safety & EMC	Safety Standards	UL, cUL, UL8750 Class 2				
	EMI/EMC Standards	FCC Part 15 Class B				
Physical Parameters		L	W	H	M	R
	Dimensions(mm)	60	60	28	65	
	Net Weight	0.5 lbs.				
	Input Leads (AWG, Length)	Line		Neutral		PE
		18AWG, 203mm		18AWG, 203mm		18AWG, 50mm
	Output Leads (Color, AWG, Length)	Positive		Negative		Control
		Red, 18AWG, 120mm		Yellow, 18AWG, 120mm		
	Packaging	QTY/CTN		Dimensions		Weight

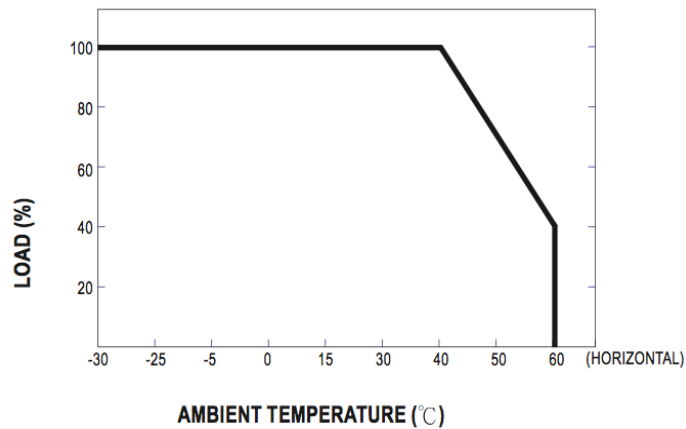
Line Drawing



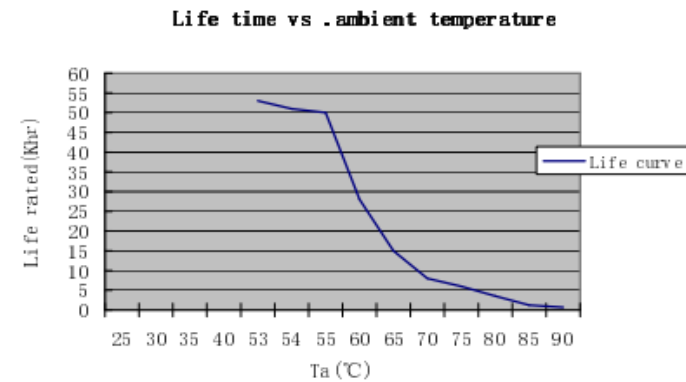
Wiring Diagram



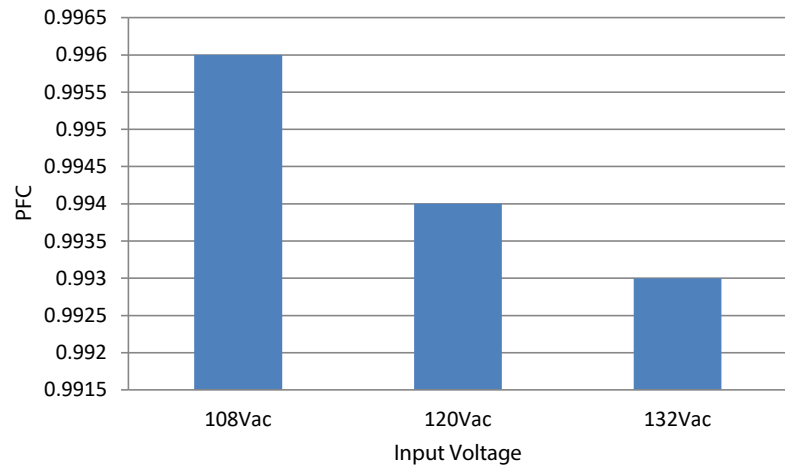
Derating Curve



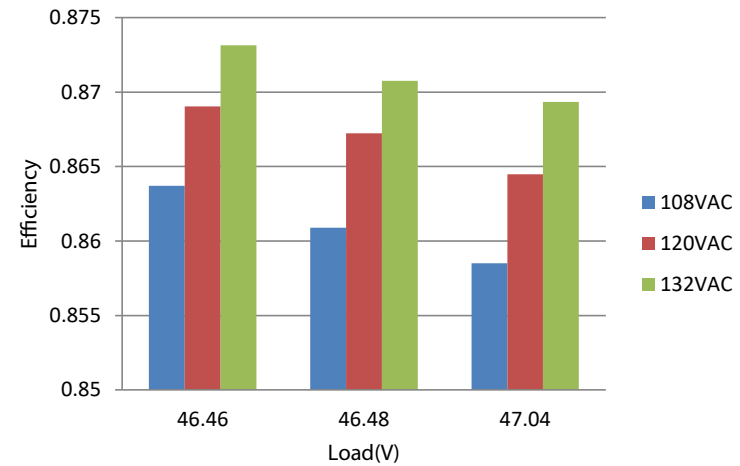
Life vs. Ambient Temp



Power Factor Characteristics



Efficiency vs. rate output current at full load



Label



Santa Fe Springs, CA
www.espentech.com

CONSTANT CURRENT LED Driver 120V 60Hz

Class 2 Power Supply | Dry or Damp Location Only

VEL40180120H-1
 In: 47W , 410mA
 Out: 12-22V , 1800mA
 PF: >0.90

W—N
 B—L

+
-

Red
Yel

RoHS  **us**

CAUTION
 DISCONNECT LINE VOLTAGE BEFORE INSTALLING OR REPLACING. CASE MUST BE GROUNDED.

Toll Free: 1-866-933-7736 Made in China **SKU:800-798**

Side Label

53 x 20 mm

FUENTE DE ALIMENTACIÓN DE LED DE CONSTANTE CORRIENTE EN LUGAR SECO USO EXCLUSIVO
PRECAUCION: DESCONECTE LA ENERGÍA ANTES DE INSTALAR O SUSTITUCIÓN. CASO DEBE CONECTARSE A TIERRA.

SOURCE DE COURANT DE LED DE CONSTANT FLUX ENDOIT SEC UTILISER UNIQUEMENT
ATTENTION: COUPER LE COURANT AVANT D'INSTALLER OU REMPLACEMENT. CASE DOIT ÊTRE MISE À LA TERRE.