



Specification Data

Espen Generic Part No.	
Espen Generic Model No.	VRL30054MVHDA-MD-P



Output (Normal Mode)	Rated Current	390mA	470mA	540mA		
	Operating Voltage Range (min. ~ max.)	30-50V	30-50V	30-50V		
	Rated Power (Max @W)	19.5W	23.5W	27W		
	Output Current ripple(ripple = pk-pk/2*avg)	10%				
	Start Time (Max. ms @ VAC)	<1000ms / @ 120VAC @ rated load				
	Output Current Regulation (%)	± 5%				
	Output Dimming Range (%)	10%-100%				

Input (Normal Mode)	Frequency Range	47 ~ 63 Hz
	Input Voltage Range (±10%)	120-277 VAC (±10%)
	Power Factor (Min.)	0.9
	THD (Max.)	20%
	Efficiency (typ. %@277VAC full load)	83%
	Input AC Current (Max. @ VAC)	0.30A @ at full load
	Inrush Current (Max.)	277VAC @ 25 DEG C: <25Amp peak
	Leakage Current (Max. @ VAC)	0.75mA

	Data	Notes
General Specifications		
Dimming Type	DC DIMMING	0-10V
Dimming Range	10% ~ 100%	
0-10v Dimming Interface Current	<10mA	
MTBF	>200,000hrs	calculated to MIL-HDBK217F @ 25 DEG C. rated load. Ground Benign.
Max. Case Temp.	90°C	
Life Rating	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	<60VDC				
	Short Circuit	current limit protection				
	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	Over Temperature Protection, No load protection				
Environmental	Operating Temperature (min. ~ max.)	-30 ~ +55°C				
	Storage Temperature (min. ~ max.)	-40~ +85°C				
	Operating Humidity	20 ~ 95% RH				
	Storage Humidity	10 ~ 95% RH				
	Temperature Coefficient (%/C)	±0.03% / °C (0~50°C)				
	IP Rating	IP20				
	Application	For Dry and Damp location				
	Audible sound Level	<24dB				
Safety & EMC	Safety Standards	UL, cUL, UL8750 Class 2;UL1310;CSA C22.2 No. 250.13-12,Class P				
	EMI/EMC Standards	FCC Part 15 Class B				
Physical Parameters		L	W	H	M	
	Dimensions (mm)	241.3	43.1	30	226	
	Net Weight (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 9mm(+/-1mm)			
		Negative	Blue single 20AWG 105°C 600V length 800mm(+/-25mm) wire stripping 9mm(+/-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.)
		NA	NA	NA



