

### Key Features & Benefits:

- Built-In Active PFC function
- High Efficiency
- Waterproof (IP67)
- Constant Current / 0-10V Dimming
- Clock Dimming(CLK) / CP Dimming
- Protection: OVP, SCP, OTP
- UL Type TL, Type HL



Project: \_\_\_\_\_ Catalog#: \_\_\_\_\_ Date: \_\_\_\_\_  
 Notes: \_\_\_\_\_

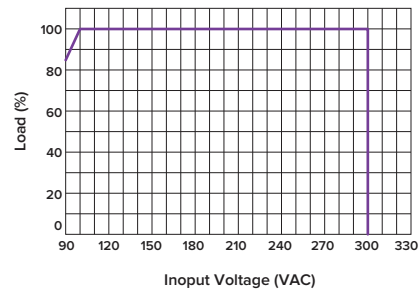
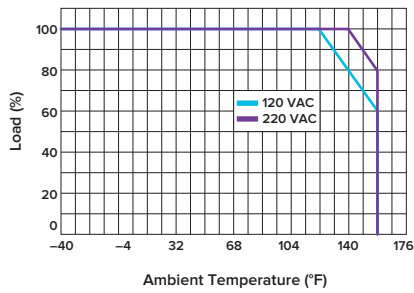


### ESL-DMG-75W-54-2100

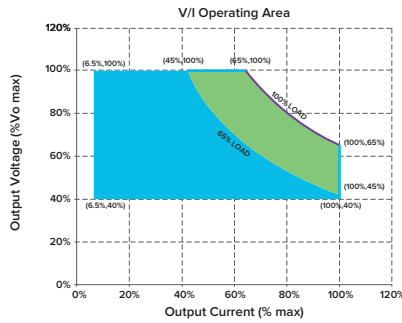
Input	Efficiency (120 VAC)	86% (Typical), >84% at full load
	Efficiency (230 VAC)	88% (Typical), >86% at full load
	Voltage Range (VAC)	90 - 305
	Rated Input Voltage (VAC)	100 - 277
	Frequency Range (Hz)	47 ~ 63
	Power Factor	>0.9 with 60%~100% load, at 100~277Vac
	THD	<15% with 80%~100% load, at 100~277 VAC, <20% with 50%~100% load, at 100~277 VAC
	AC Current (Typ.)	1.0A MAX at 110 VAC
	Inrush Current (Typ.)	65A at 230Vac input 25 Cold Start ( time wide=500uS, measured at 50% Ipeak,Not applicable for the inrush current to Noise Filter for less than 0.2ms)
	Leakage Current (Max.)	0.75mA at 277 VAC/60Hz
Output	Rated Output Voltage (V)	54-36
	Output Voltage Range (V) <small>Note.1</small>	21-54
	Rated Current (mA)	1400-2100
	Output Current Range (mA)	140-2100
	Rated Power (W)	75W(max)
	Output Current Set Range	6.5%Io_max - 100%Io_max
	Constant Power Output Set Range	65%Io_max - 100%Io_max
	Ripple Current (Typ.)	<10%((PK-AV) /AV) full load)
	Current Tolerance <small>Note.2</small>	5%
	Line Regulation	1%
Load Regulation	3%	
Turn on delay Time	0.5s(typ.), measured at 220 VAC input	
Dimming Control	12 VDC Output Voltage (VDC)	10.8V Min. / 12V Typ. / 13.2V Max.
	12 VDC Output Current (VDC)	0mA~20mA max.
	0~10V / DMI+ Voltage	Absolute maximum voltage - 10V min ~ 20V max
	0~10V / DMI+ Short Current	280uA ~ 450uA (DIM+=0)
	DIMMING FUNCTION	0~10V/10%Io~100%Io ref. Dimming module diagram and dimming cruve
Protection	Over Voltage (V)	>70 Protection type: Voltage limiting,output will not exceed the upper limit voltage , recovers automatically after fault condition is removed.
	Short Circuit	Protection type: Hiccup mode. recovers automatically after short is removed.
	Over Temperature	Protection type: Resumable mode.when the inside temperature of PSU rise to 212°F(Typ.), decreases output current, returning to normal after over temperature is removed.
Environment	Operating Temperature	-40~+158°F (Refer to "Derating Curve")
	Tcase	194°F Max.
	Operating Humidity	20~95%RH
	Storage Temperature (Humidity)	-40~+185°F, 10-95%RH
	Temperature Coefficient	0.03% / °F (32 - 122°F)
Vibration	10~500Hz, 5G 12min/cycle, period for 72 min. each along X, Y, Z axes	
Safety & EMC	Safety Standard	UL8750;UL1012;CAN/CSA-C22.2 No.107-01;IEC/EN61347-1;IEC/EN61347-2-13;
	Withstand Voltage	I/P-O/P:3.75KVAC I/P-FG:1.875KV O/P-FG:1.5KV
	Isolation Resistance	I/P-O/P:100M Ohms (500VDC/77°F/70%RH)
	EMC Emission	FCC Part 15 Class B/ EN55015, EN61000-3-2 Class C, EN61000-3-3
EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547 (Surge L,N-FG 10KV, L-N 10KV)	
Others	MTBF	250,000 hours, measured at full load, 77°F ambient temperature MIL-HDBK-217F(77°F)
	Lifetime	50,000 Hours at Tc 75 (Refer to"Life Time VS. Tcase (Ref.)")
	Dimension (LxWxH)	6.81" L x 2.66" W x 1.46" H
	Weight	1.67lbs

Note.1: Measured at full load and steady-state temperature in 77°F ambient(Efficiency will be about 2% lower if measured immediately after startup); Note.2: Derating may be needed underlow input voltages , Please Refer to 'Derating Curve'; Note.3: All parameters NOT specially mentioned are measured at 230 VAC input , rated load and 77°F of ambient temperature

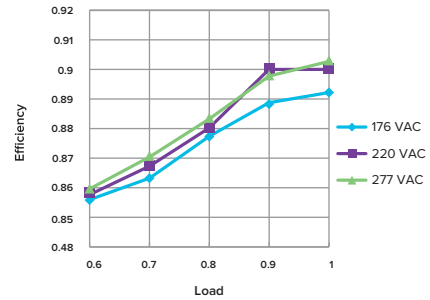
### Derating Curve:



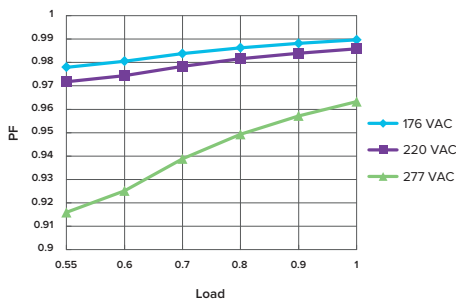
### V/I Curve:



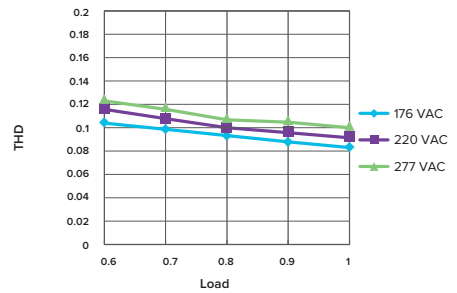
### Efficiency vs. Load Curve:



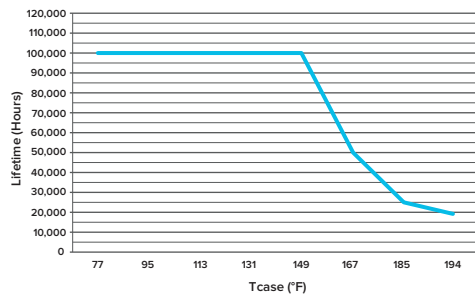
### Power Factor vs. Load Curve:



### THD Curve:



### Life Time vs. Tcase (Ref.):



**Dimensions:**

