LED DMG OUTDOOR DRIVER

POLLO SERIES

ESL-DMG-240W

Project: Catalog#: Date:

Notes:

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

5 YEAR WARRANTY

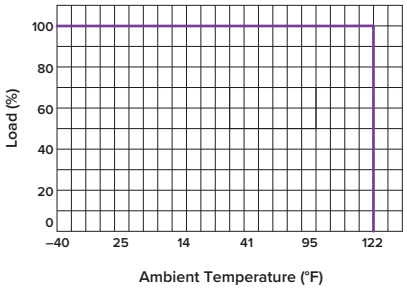
c UL us E350222

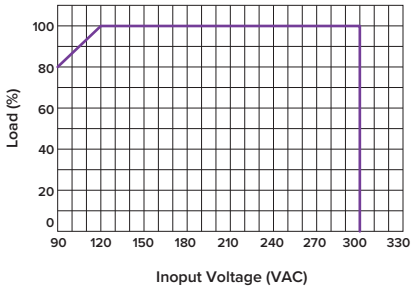
DIMMABLE 1-10V

ESL-DMG-240W-OPMA-XX-YYYY*		800†	1050†	1500†	2100†	3000†	4200†	6000	8000†	10000†	12000†
Input	Efficiency (230 VAC)	93.0%	93.0%	93.0%	93.0%	93.0%	93.0%	93.0%	93.0%	93.0%	93.0%
	Voltage Range (VAC)	90 - 305									
	Rated Input Voltage (VAC)	100 - 277									
	Frequency Range (Hz)	47 ~ 63									
	Power Factor	PF>0.98/120VAC, PF>0.95/230VAC, PF>0.93/277VAC at full load									
	THD	THD< 20% when output loading≧80% at 120VAC/230VAC input and output loading≧80% at 277VAC input									
	AC Current (Typ.)	2.5A MAX at 120 VAC, 1.3A MAX at 230VAC									
	Inrush Current (Typ.)	Cold Start 65A (twidth=680μs measured at 50% Ipeak) at 230VAC									
	Leakage Current (Max.)	0.75mA at 277 VAC, 50Hz Input									
Output	Rated Output Voltage (V)	453-300	343-228	240-160	171-114	120-80	86-57	60-40	40-30	30-24	24-20
	Output Voltage Range (V) Note.1	453-181	343-137	240-96	171-68	120-48	86-34	60-24	40-16	30-12	24-12
	Rated Current (mA)	530-800	700-1050	1000-1500	1400-2100	2000-3000	2800-4200	4000-6000	6000-8000	8000-10000	10000-12000
	Output Current Range (mA)	53-800	70-1050	100-1500	140-2100	200-3000	280-3000	400-6000	600-8000	800-10000	1000-12000
	Rated Power (W)	240W(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% of Io_max. ((PK-AV) /AV) with LED default mode and full load)									
	Current Tolerance Note.2	±5%									
	Line Regulation	±3%									
	Load Regulation	±3%									
	Turn on delay Time	<1s at 120 VAC; <0.5s at 230 VAC									
Dimming Control	12 VDC Output Voltage (VDC)	10.8V Min. / 12V Typ. / 13.2V Max.									
	12 VDC Output Current (VDC)	0mA~50mA max.									
	0~10V / DMI+ Voltage	Absolute maximum voltage - 10V min ~ 20V max									
	0~10V / DMI+ Short Current	280uA ~ 450uA (DIM(+)=0)									
	DIMMING FUNCTION	Default 1-10V dimming mode. Other dimming modes sets to PWM/Clock Dimming(CLK) by software configuration									
Protection	Over Voltage (V)	>500	>400	>300	>250	>180	>120	>80	>50	>40	>36
		Protection type: Voltage limiting.output will not excceed 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: 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-C22.2No.107.1-01,EN61347-1, 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 ,I/P-FG,O/P-FG: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: ±4kV, L,N-FG: ±6kV)									
Others	MTBF	TBD									
	Lifetime	>=100 KHrs lifetime (continous) at Tcase = 149°F / >=50 KHrs lifetime (continous) at Tcase = 167°F									
	Dimension (LxWxH)	9.88" L x 2.66" W x 1.57" H									
	Weight	2.87lbs									
* XX = Output Voltage / YYYY = Output Current		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 beneeded under low input voltage, Please Refer to "Derating Curve"									

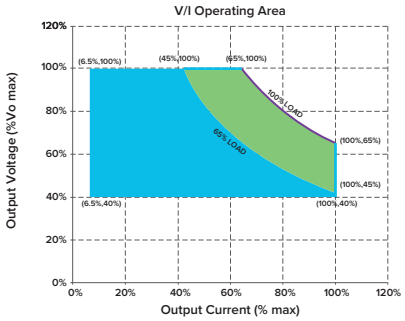
†These products are not stocked. Contact factory for lead times.

Derating Curve:

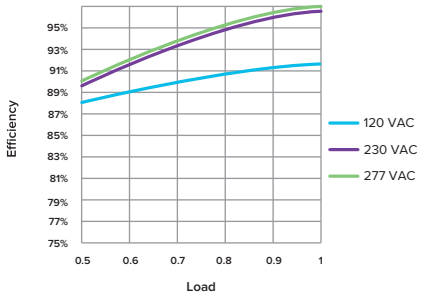




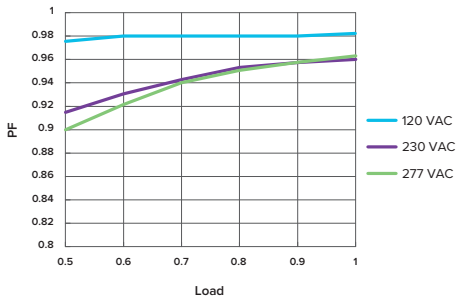
V/I Curve:



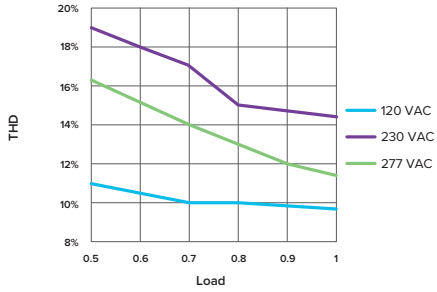
Efficiency vs. Load Curve:



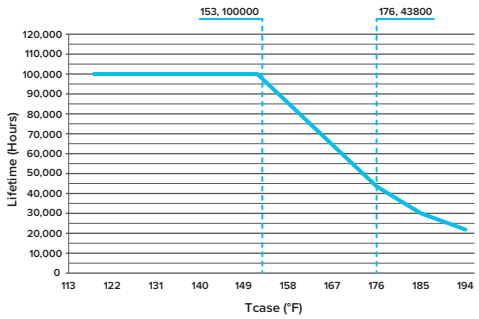
Power Factor vs. Load Curve:



THD Curve:



Life Time vs. Tcase (Ref.):



Dimensions: