

### 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



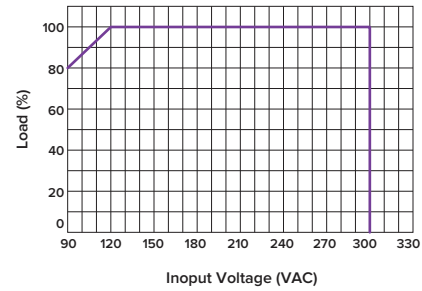
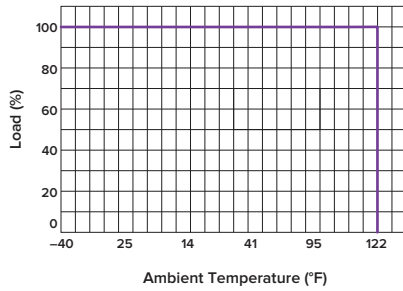
Project: \_\_\_\_\_ Catalog#: \_\_\_\_\_ Date: \_\_\_\_\_  
 Notes: \_\_\_\_\_



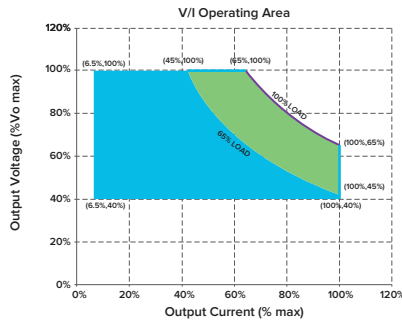
| ESL-DMG-240W-OPMA-XX-YYYY*                    |   | 800 <sup>+</sup>   | 1050 <sup>+</sup>                  | 1500 <sup>+</sup> | 2100 <sup>+</sup> | 3000 <sup>+</sup> | 4200 <sup>+</sup> | 6000      | 8000 <sup>+</sup> | 10000 <sup>+</sup> | 12000 <sup>+</sup> |
|---|---|--|------------------------------------|-------------------|-------------------|-------------------|-------------------|-----------|-------------------|--------------------|--------------------|
| 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) <small>Note.1</small>  | 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%I <sub>o_max</sub> - 100%I <sub>o_max</sub>  |                                    |                   |                   |                   |                   |           |                   |                    |                    |
|   | Constant Power Output Set Range   | 65%I <sub>o_max</sub> - 100%I <sub>o_max</sub>   |                                    |                   |                   |                   |                   |           |                   |                    |                    |
|   | Ripple Current (Typ.)   | 10% of I <sub>o_max</sub> . ((PK-AV) /AV) with LED default mode and full load)   |                                    |                   |                   |                   |                   |           |                   |                    |                    |
|   | Current Tolerance <small>Note.2</small>   | ±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 0-10V 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 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: 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 )<br>Note.2: Derating may beneeded under low input voltage, Please Refer to "Derating Curve" |                                    |                   |                   |                   |                   |           |                   |                    |                    |

\*These products are not stocked. Contact factory for lead times.

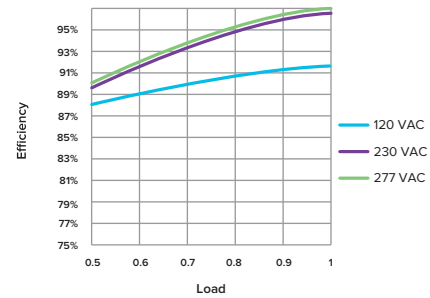
### Derating Curve:



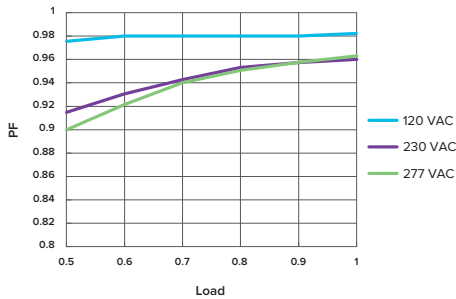
### V/I Curve:



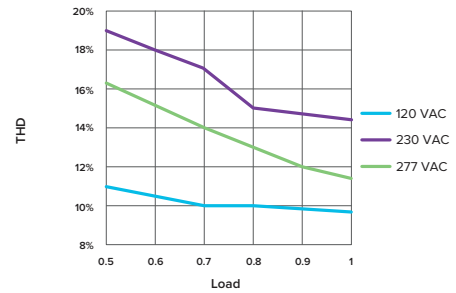
### Efficiency vs. Load Curve:



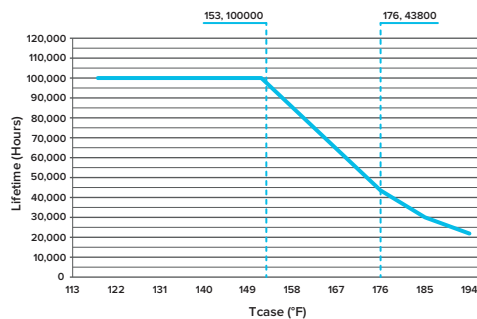
### Power Factor vs. Load Curve:



### THD Curve:



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



**Dimensions:**

