

**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



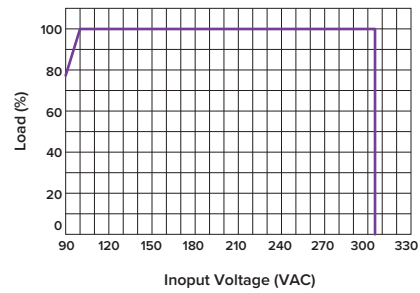
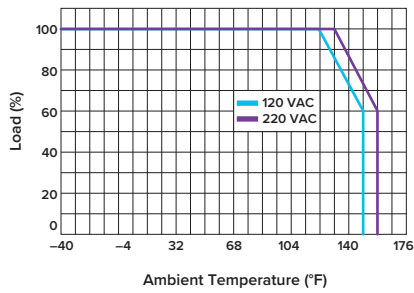
Project: \_\_\_\_\_ Catalog#: \_\_\_\_\_ Date: \_\_\_\_\_  
Notes: \_\_\_\_\_



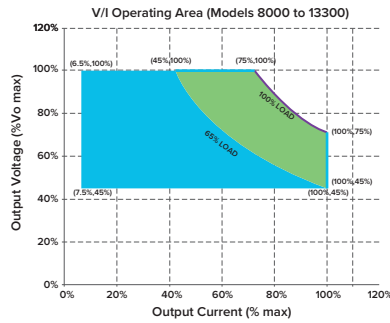
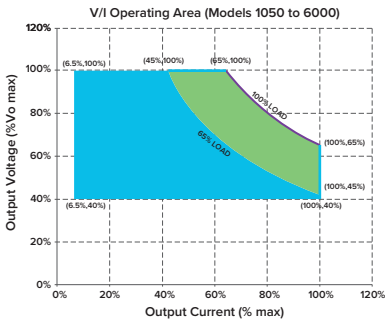
| ESL-DMG-320W-OPMA-XX-YYYY*                    |  | 1050†   | 1500†     | 2100†     | 3000†     | 4200†     | 6000†     | 8000                | 10500†     | 13300       |  |
|---|--|---|-----------|-----------|-----------|-----------|-----------|---------------------|------------|-------------|--|
| Input   | Efficiency (120 VAC) Note.1  | 91.0%   | 91.0%     | 90.0%     | 90.0%     | 90.0%     | 90.0%     | 90.5%               | 90.5%      | 90.5%       |  |
|   | Efficiency (230 VAC) Note.1  | 94.0%   | 94.0%     | 93.0%     | 93.0%     | 93.0%     | 93.0%     | 93.5%               | 93.5%      | 93.5%       |  |
|   | Voltage Range (VAC) Note.2   | 90 - 305  |           |           |           |           |           |                     |            |             |  |
|   | Rated Input Voltage (VAC) Note.2                                     | 100 - 277   |           |           |           |           |           |                     |            |             |  |
|   | Frequency Range (Hz)   | 47 ~ 63   |           |           |           |           |           |                     |            |             |  |
|   | Power Factor   | 0.99 (Typical) at 120 VAC; 0.98 (Typical) at 230 VAC; 0.9 (Min.) at 277 Vac, with 80% - 100%  |           |           |           |           |           |                     |            |             |  |
|   | THD  | 8% (Typ.) at 120 VAC input, 10% (Typ.) at 230 VAC input, with 80%~100% load. 20% (Max.) with 50%~100% load, at 100~277 VAC  |           |           |           |           |           |                     |            |             |  |
|   | AC Current (Typ.)  | 4.0A at 100 VAC input, 1.7A at 230 VAC  |           |           |           |           |           |                     |            |             |  |
|   | Inrush Current (Typ.)  | 65A at 230 VAC input, 25°C, 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 277Vac/60Hz   |           |           |           |           |           |                     |            |             |  |
| Output  | Rated Output Voltage (V)   | 457-305   | 320-214   | 228-153   | 160-107   | 114-76    | 80-53     | 53.5-40             | 40.5-30.5  | 32-24       |  |
|   | Output Voltage Range (V)   | 457-183   | 320-128   | 228-91    | 160-64    | 114-46    | 80-32     | 53.5-24             | 40.5-18    | 32-14       |  |
|   | Rated Current (mA)   | 700-1050  | 1000-1500 | 1400-2100 | 2000-3000 | 2800-4200 | 4000-6000 | 6000-8000           | 7900-10500 | 10000-13300 |  |
|   | Output Current Range (mA)  | 70-1050   | 100-1500  | 140-2100  | 200-3000  | 280-4200  | 400-6000  | 600-8000            | 790-10500  | 1000-13300  |  |
|   | Rated Power (W)  | 320   |           |           |           |           |           |                     |            |             |  |
|   | Output Current Set Range   | 6.5%Io_max - 100%Io_max   |           |           |           |           |           | 7.5%-100% of Io_max |            |             |  |
|   | Constant Power Output Set Range                                      | 65%Io_max - 100%Io_max  |           |           |           |           |           | 75%-100% of Io_max  |            |             |  |
|   | Ripple Current (PK / AV) / AV  | 10% of Io_max. ((PK-AV) /AV) with LED default mode and full load)   |           |           |           |           |           |                     |            |             |  |
|   | Current Tolerance  | 5%  |           |           |           |           |           |                     |            |             |  |
|   | Line Regulation  | 1%  |           |           |           |           |           |                     |            |             |  |
|   | Load Regulation  | 3%  |           |           |           |           |           |                     |            |             |  |
|   | Turn on delay Time   | <1s, at 120Vac; <0.5s, at 230Vac  |           |           |           |           |           |                     |            |             |  |
|   | Dimming Control  | 12 VDC Output Voltage (VDC)   | 10.8-13.2 |           |           |           |           |                     |            |             |  |
| 12 VDC Output Current (mA)                    |  | 20 (Max.)   |           |           |           |           |           |                     |            |             |  |
| 0~10V / DMI+ Voltage                          |  | Absolute maximum voltage: -10Vmin~20Vmax  |           |           |           |           |           |                     |            |             |  |
| 0~10V / DMI+ Short Current                    |  | 280uA~450uA (DIM+=0)  |           |           |           |           |           |                     |            |             |  |
| DIMMING FUNCTION                              |  | Default is 1-10V dimming mode. Other dimming ways like PWM/ CLK dimming can be set by software configuration.   |           |           |           |           |           |                     |            |             |  |
| Protection                                    | Over Voltage (V)   | 594   | 416       | 296       | 208       | 148       | 104       | 70                  | 53         | 42          |  |
|   | Short Circuit  | Protection type: Voltage limiting.output will not exceed the upper limit voltage , recovers automatically after fault condition is removed.   |           |           |           |           |           |                     |            |             |  |
|   | Over Temperature   | Protection type: Decrease output current. When tc reaches 100°C+/-10°C, the output current decrease to approximate 50% of rated value until tc reaches 75°C+/-15°C.   |           |           |           |           |           |                     |            |             |  |
| Environment                                   | Operating Temperature  | -40~+158°F (Refer to "Derating Curve")  |           |           |           |           |           |                     |            |             |  |
|   | Tcase  | 194°F Max.  |           |           |           |           |           |                     |            |             |  |
|   | Operating Humidity   | 20~95%RH, non-condensing  |           |           |           |           |           |                     |            |             |  |
|   | 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:3.75k VAC, I/P-FG:1.5k VAC, O/P-FG:1.5k VAC   |           |           |           |           |           |                     |            |             |  |
|   | 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: ±4kV, L-N-FG: ±6kV)  |           |           |           |           |           |                     |            |             |  |
| Others  | MTBF   | 300,000 Hours, measured at full load, 77°F ambient temperature  |           |           |           |           |           |                     |            |             |  |
|   | Lifetime   | 50,000 Hours at Tc 75°C(Refer to"Life Time VS. Tcase (Ref.)"  |           |           |           |           |           |                     |            |             |  |
|   | Dimension (LxWxH)  | 9.88" L x 3.54" W x 1.75" H   |           |           |           |           |           |                     |            |             |  |
|   | Weight   | 3.97lbs   |           |           |           |           |           |                     |            |             |  |
| * 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 be needed under low input voltage, Please Refer to 'Derating Curve'; Note.3: All parameters NOT specially mentioned are measured at 230 VAC input, rated load and 77°Fambient temperature; |           |           |           |           |           |                     |            |             |  |

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

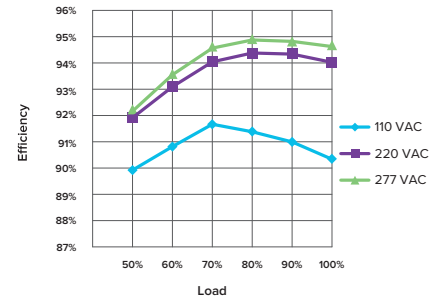
### Derating Curve:



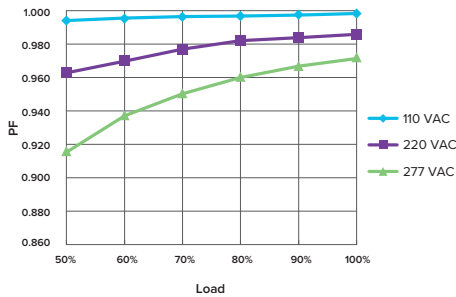
### V/I Curve:



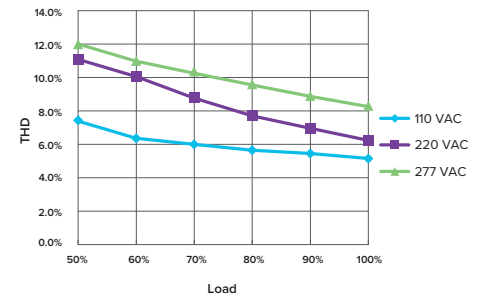
### Efficiency vs. Load Curve:



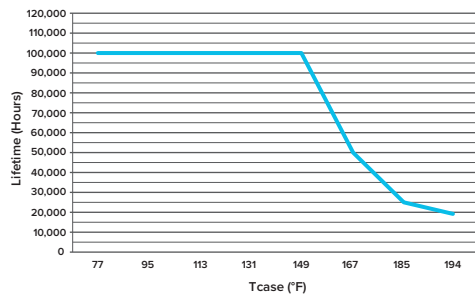
### Power Factor vs. Load Curve:



### THD Curve:



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



**Dimensions:**

