

## SPECIFICATION

| MODEL                                  |  | ELG-150-48 □   |  |
|--|--|--|--|
| OUTPUT                                 | DC VOLTAGE   | 48V  |  |
|  | CONSTANT CURRENT REGION <small>Note.2</small>  | 24 ~ 48V   |  |
|  | RATED CURRENT  | 3.13A  |  |
|  | RATED CURRENT (for BE Type only)   | 2.8A   |  |
|  | RATED POWER  |  | 100VAC ~ 180VAC  |
|  |  | (For All the Types)  | 105W   |
|  |  |  | 200VAC ~ 305VAC  |
|  |  | (Except for BE Type)   | 150.2W   |
|  |  | (For BE Type only)   | 134.4W   |
|  | RIPPLE & NOISE (max.) <small>Note.3</small>  | 250mVp-p   |  |
|  | VOLTAGE ADJ. RANGE   | Adjustable for A/AB-Type only (via the built-in potentiometer)   |  |
|  |  | 43.2 ~ 52.8V   |  |
|  | CURRENT ADJ. RANGE   | Adjustable for A/AB-Type only (via the built-in potentiometer)   |  |
|  |  | 1.56 ~ 3.13A   |  |
|  | VOLTAGE TOLERANCE <small>Note.4</small>  | ±2.0%  |  |
|  | LINE REGULATION  | ±0.5%  |  |
| LOAD REGULATION                        | ±0.5%  |  |  |
| AUXILIARY DC OUTPUT                    | Nominal 15V(deviation 11.5~15.5V)@0.3A for BE-Type only  |  |  |
| SETUP, RISE TIME <small>Note.6</small> | 1600ms, 80ms/115VAC      500ms, 100ms/230VAC   |  |  |
| HOLD UP TIME (Typ.)                    | 10ms/115VAC, 230VAC  |  |  |
| INPUT                                  | VOLTAGE RANGE <small>Note.5</small>  | 100 ~ 305VAC      142 ~ 431VDC<br>(Please refer to "STATIC CHARACTERISTIC" section)  |  |
|  |  | FREQUENCY RANGE  |  |
|  | 47 ~ 63Hz  |  |  |
|  | POWER FACTOR   | PF ≥ 0.97/115VAC, PF ≥ 0.95/230VAC, PF ≥ 0.92/277VAC@full load<br>(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)   |  |
|  | TOTAL HARMONIC DISTORTION  | THD < 20% (@load ≥ 50%/115VAC; @load ≥ 60%/230VAC; @load ≥ 75%/277VAC)<br>(Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)   |  |
|  | EFFICIENCY (Typ.)  | 90%  |  |
|  | EFFICIENCY (Typ.)(for BE Type only)  | 88%  |  |
|  | AC CURRENT   | 1.7A / 115VAC    0.9A / 230VAC    0.7A/277VAC  |  |
|  | INRUSH CURRENT(Typ.)   | COLD START 65A(twidth=550μs measured at 50% Ipeak) at 230VAC; Per NEMA 410   |  |
|  | MAX. No. of PSUs on 16A CIRCUIT BREAKER  | 3 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC  |  |
| LEAKAGE CURRENT                        | <0.75mA / 277VAC   |  |  |
| NO LOAD / STANDBY POWER CONSUMPTION    | No load power consumption <0.5W for Blank / A / Dx / D2-Type<br>Standby power consumption <0.5W for B / AB / DA-Type   |  |  |
| PROTECTION                             | OVER CURRENT   | 95 ~ 108%<br>Constant current limiting, recovers automatically after fault condition is removed  |  |
|  | SHORT CIRCUIT  | Hiccup mode, recovers automatically after fault condition is removed   |  |
|  | OVER VOLTAGE   | 54 ~ 62V<br>Shut down output voltage, re-power on to recover   |  |
|  | OVER TEMPERATURE   | Shut down output voltage, re-power on to recover   |  |
|  | ENVIRONMENT  | WORKING TEMP.  | Tcase=-40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) |
| MAX. CASE TEMP.                        |  | Tcase=+90°C  |  |
| WORKING HUMIDITY                       |  | 20 ~ 95% RH non-condensing   |  |
| STORAGE TEMP., HUMIDITY                |  | -40 ~ +80°C, 10 ~ 95% RH   |  |
| TEMP. COEFFICIENT                      |  | ±0.03%/°C (0 ~ 60°C)   |  |
| VIBRATION                              | 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes  |  |  |
| SAFETY & EMC                           | SAFETY STANDARDS   | UL8750(type"HL")(except for BE-type), CSA C22.2 No. 250.13-12;<br>IEC/EN/AS/NZS 61347-1,IEC/EN/AS/NZS 61347-2-13 independent,<br>EN62384,BIS IS15885(for 12/12B/12DA/24/24B/24DA/36A/42/42A/48A/54 only),<br>EAC TP TC 004,GB19510.1,GB19510.14; IP65 or IP67; KC61347-1,KC61347-2-13 approved |  |
|  | DALI STANDARDS   | Compliance to IEC62386-101,102,207 for DA-Type only  |  |
|  | WITHSTAND VOLTAGE  | I/P-O/P:3.75KVAC I/P-FG:2.0KVAC O/P-FG:1.5KVAC   |  |
|  | ISOLATION RESISTANCE   | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH   |  |
|  | EMC EMISSION   | Compliance to EN55015,EN61000-3-2 Class C(@load ≥ 60%); EN61000-3-3; GB17743 , GB17625.1,EAC TP TC020; KC KN15,KN61547   |  |
|  | EMC IMMUNITY   | Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level (surge immunity Line-Earth 6KV, Line-Line 4KV),EAC TP TC 020; KC KN15,KN61547  |  |
| OTHERS                                 | MTBF   | 899.8K hrs min. Telcordia SR-332 (Bellcore)      313.66Khrs min. MIL-HDBK-217F (25°C)  |  |
|  | DIMENSION  | 219*63*35.5mm (L*W*H)  |  |
|  | PACKING  | 0.95Kg ; 16pcs/16.0kg/0.77CUFT   |  |
| NOTE                                   | <ol style="list-style-type: none"> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.</li> <li>Please refer to "DRIVING METHODS OF LED MODULE". For DA-Type, Constant Current region is 60%~100% of maximum voltage under rated power delivery.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTICS" sections for details.</li> <li>Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.</li> <li>The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.</li> <li>This series meets the typical life expectancy of &gt;50,000 hours of operation when Tcase, particularly to point (or TMP, per DLC), is about 80°C or less.</li> <li>Please refer to the warranty statement on MEAN WELL's website at <a href="http://www.meanwell.com">http://www.meanwell.com</a>.</li> <li>The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).</li> <li>For any application note and IP water proof function installation caution, please refer our user manual before using.</li> <li><a href="https://www.meanwell.com/Upload/PDF/LED_EN.pdf">https://www.meanwell.com/Upload/PDF/LED_EN.pdf</a></li> </ol> |  |  |