



# 480W Constant Current Mode LED Driver

# HLG-480H-C series

## SPECIFICATION

| MODEL                             |   | HLG-480H-C1400 <input type="checkbox"/>   | HLG-480H-C1750 <input type="checkbox"/> | HLG-480H-C2100 <input type="checkbox"/> | HLG-480H-C2800 <input type="checkbox"/> | HLG-480H-C3500 <input type="checkbox"/> |
|-----------------------------------|---|---|---|---|---|---|
| OUTPUT                            | RATED CURRENT                                 | 1400mA  | 1750mA                                  | 2100mA                                  | 2800mA                                  | 3500mA                                  |
|                                   | RATED POWER                                   | 480W  | 480W                                    | 481W                                    | 479W                                    | 480W                                    |
|                                   | CONSTANT CURRENT REGION <small>Note.2</small> | 171 ~ 343V  | 137~274V                                | 114 ~ 229V                              | 85 ~ 171V                               | 68 ~ 137V                               |
|                                   | OPEN CIRCUIT VOLTAGE (max.)                   | 420V  | 340V                                    | 280V                                    | 210V                                    | 170V                                    |
|                                   | CURRENT ADJ. RANGE                            | Adjustable for A/AB-Type only (via built-in potentiometer)  |   |   |   |   |
|                                   |   | 700~1400mA  | 875~1750mA                              | 1050~2100mA                             | 1400~2800mA                             | 1750~3500mA                             |
|                                   | CURRENT RIPPLE                                | 5.0% max. @rated current  |   |   |   |   |
|                                   | CURRENT TOLERANCE                             | ±5%   |   |   |   |   |
| SET UP TIME <small>Note.4</small> | 500ms/115VAC,230VAC                           |   |   |   |   |   |
| INPUT                             | VOLTAGE RANGE <small>Note.3</small>           | 90 ~ 305VAC    127 ~ 431VDC<br>(Please refer to "STATIC CHARACTERISTIC" section)  |   |   |   |   |
|                                   | FREQUENCY RANGE                               | 47 ~ 63Hz   |   |   |   |   |
|                                   | POWER FACTOR (Typ.)                           | PF ≥ 0.98/115VAC, PF ≥ 0.97/230VAC, PF ≥ 0.95/277VAC @full load<br>(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section) |   |   |   |   |
|                                   | TOTAL HARMONIC DISTORTION                     | THD < 20% (@ load ≥ 40% /115VAC, 230VAC, 277VAC)<br>(Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)                 |   |   |   |   |
|                                   | EFFICIENCY (Typ.)                             | 95%   | 95%                                     | 95%                                     | 95%                                     | 95%                                     |
|                                   | AC CURRENT (Typ.)                             | 5A / 115VAC    2.45A / 230VAC    2A / 277VAC  |   |   |   |   |
|                                   | INRUSH CURRENT(Typ.)                          | COLD START 35A(t <sub>width</sub> =1800μs measured at 50% I <sub>peak</sub> ) at 230VAC; Per NEMA 410                           |   |   |   |   |
|                                   | MAX. NO. of PSUs on 16A CIRCUIT BREAKER       | 2 unit(circuit breaker of type B) / 3 units(circuit breaker of type C) at 230VAC  |   |   |   |   |
| LEAKAGE CURRENT                   | <0.75mA / 277VAC                              |   |   |   |   |   |
| PROTECTION                        | SHORT CIRCUIT                                 | Constant current, recovers automatically after fault condition is removed   |   |   |   |   |
|                                   | OVER VOLTAGE                                  | 432 ~ 473V  | 345 ~ 382V                              | 289 ~ 322V                              | 215 ~ 246V                              | 173 ~ 197V                              |
|                                   | OVER TEMPERATURE                              | Shut down output voltage, re-power on to recovery   |   |   |   |   |