# Coolled <br> <br> Efficient <br> <br> Efficient Innovative Control 

## CL Switchable LED Drivers $350 / 700 \mathrm{~mA}, 500 / 1000 \mathrm{~mA} \& 1200 / 1400 \mathrm{~mA}$

CoolLED drivers provide a high performance solution for powering high-brightness LEDs from a mains supply.
CoolLED Switchable Drivers feature a switch, accessible during installation, to select between two current values.
The power factor corrected, class II driver has fully isolated, SELV output delivering up to 33 W of power.
The well regulated output current will typically power a series string of between 3 and 14 LEDs with a 1 W to 3 W rating up to a combined forward voltage of $48 \mathrm{~V}(1000 \mathrm{~mA}=33 \mathrm{~V}, 1200 \mathrm{~mA}=21 \mathrm{~V}, 1400 \mathrm{~mA}=$ 18V).
CoolLED Switchable Drivers feature a switch, accessible during installation, to select between full and half rated output current.
All CoolLED Drivers have a high efficiency design, which ensures cool operation and long life. The compact enclosure is available in Integral (B) and Remote Mount (C) versions. Remote types feature screwless cable clamps.
CoolLED Drivers are open and short-circuit protected and have self resetting over temperature trip.
Consult the sales office for versions where the current level can be set by external switch or presence detector. These drivers include a "soft dim" feature to avoid sudden steps in LED brightness.

| - Power factor corrected (0.98) | - Up to $88 \%$ efficient |
| :--- | :--- |
| - Constant current output | - Surge protection up to 4 kV |
| - Switchable between | - SELV isolation |
| $350 / 700 \mathrm{~mA}, 500 / 1000 \mathrm{~mA}$ or | - Made in the UK |
| $1200 \mathrm{~mA} / 1400 \mathrm{~mA}$ | - Integral and remote versions |
| - Self resetting thermal trip | - Dimmable versions available |
| - Double insulated (Class II) | (consult sales team for |
| - Screwless cable clamps for | details) |
| fast assembly |  |



Integral
'B' type


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## Technical Specification

| Parameter / Model | $\begin{gathered} \text { CL700S-240- } \\ B / C \end{gathered}$ | $\begin{gathered} \text { CL1000S-240- } \\ B / C \end{gathered}$ | $\begin{gathered} \text { CL1400S-240- } \\ B / C \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| Mains input voltage range | 220 to 240Vrms |  |  |
| Mains frequency | 47 to 63 Hz |  |  |
| Power factor at full load | >0.95 (0.98 typical) |  |  |
| Efficiency at full load | 88\% typical |  |  |
| Mains surge protection | 4 kV common-mode 2 kV differential |  |  |
| Input-output isolation | 3.75 kV ac rms |  |  |
| Ambient temperature range | $-25^{\circ} \mathrm{C}$ to $50^{\circ} \mathrm{C}$ |  |  |
| Maximum Tc temperature | $80^{\circ} \mathrm{C}$ |  |  |
| Humidity | 95\% max non-condensing |  |  |
| Thermal trip | $110^{\circ} \mathrm{C}$ self resetting |  |  |
| Maximum output power | 33W | 33W | 25W |
| Output current (switchable) | 350 mA \& 700 mA | $500 \mathrm{~mA} \& 1000 \mathrm{~mA}$ | 1200 mA \& 1400 mA |
| Output current accuracy | $\pm 5 \%$ |  |  |
| LED string voltage | 9 V to 48V | 9 V to 48 V ( 33 V at 1000 mA ) | 9 V to $21 \mathrm{~V}(18 \mathrm{~V}$ at 1400 mA$)$ |
| Typical no. of LEDs (1-3W) | 3 to 14 | 3 to 10 (8 at 1000 mA$)$ | 3 to 6 ( 5 at 1400 mA ) |
| Enclosure | White polycarbonate UL94-V0 rated |  |  |
| Dimensions | See diagrams for A, B and C types |  |  |
| Terminal blocks | Rising clamp 10mm input 5 mm output pitch |  |  |
| Current ripple on high current setting | $\begin{aligned} & 10 \mathrm{~V} \text { output }=22 \% \\ & 48 \mathrm{~V} \text { output }=7.5 \% \end{aligned}$ | $\begin{gathered} 10 \mathrm{~V} \text { output }=38 \% \\ 33 \mathrm{~V} \text { output }=14.5 \% \end{gathered}$ | 18 V output $=52 \%$ |
| Wire size | 0.5 to $1.5 \mathrm{~mm}^{2}$ |  |  |
| Weight | 120 g |  |  |
| Compliance standards | EN61347-2-13 EN61000-3-2 EN61000-3-3 EN61547 EN55015 EN62384 |  |  |

350/700mA, 500/1000mA \& $1200 / 1400 \mathrm{~mA}$

## Performance Graphs



NB. Low power driver available at $350 \mathrm{~mA} \& 700 \mathrm{~mA}$ to improve efficiency for output loading of 10 W and below.

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