



ELLEGO CCR

Constant Current Regulator for the series circuits

The airfield lighting applications provide essential visual guidance for aircrafts during taxi, take-off, approach, and landing.

The ELLEGO CCR and ELLED LED-lamps provide high energy efficiency and low-operational cost for the serial circuits.

The ELLEGO AGL helps reaching airport's carbon neutrality goals and reduces annual operational costs.



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Key Features and Benefits

- Energy consumption reduces over 90% as compared to conventional LED-lighting and Halogen lighting.
- A single CCR model covers all standard AGL circuits.
- Designed for easy commissioning and maintenance.
- Parameters upload/download, history log, simplified user interfaces.
- DC-UPS backup power units available.
- Light intensity control by CCR minimizes light intensity variations across all fixtures and increases reliability.
- Compatible with series circuit current control. No power control electronics is needed inside the fixtures.
- 7 configurable light levels, status indication, earth fault detection, LED-lamp fault detection, circuit selector, circuit direction changer, series cutout, protective functions.



Technology	Microprocessor controlled IGBT based power supply
Input	500-750 V DC / 3-phase 400 V AC +/- 10%, 6,5 Arms nominal, 50/60 Hz
Output	Maximum 990 V AC, 0 - 3,0 Arms, 3,0 kVA, continuous power signal
User interface	Touch display, local maintenance web pages, status indication colour theme
Remote control	Parallel relays (14 inputs, 30 outputs), Modbus TCP/IP, Profibus DP
Unit	W450mm x D550mm x H1350mm, 150kg, IP20, max 2000m above sealevel

Innovative AGL 3.0 concept

ELLEGO™ AGL is a unique concept that provides highly efficient operation with low costs. The ICAO light intensity requirements are reached at 1.0 - 2.4 A current depending on the fixture type. For this reason, the conventional 6.6 A current is not required. Combination of ELLEGO CCR and ELLED LED-lamps together with the existing serial circuit cables and existing lamp transformers provide a quick and easy access to fundamental LED efficiency. At the minimum, very low series circuit currents, down to 0.05 A, can be used. The maximum output voltage of 990 VAC of the ELLEGO CCR means easier and safer maintenance work, less insulation stress and longer lifetime of the AGL circuits. The ELLEGO CCR has many sophisticated features making operation, maintenance, and service easy. For new series circuit installations the investment costs will reduce, because smaller cable diameter and optimized lamp transformers can be used.

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