



## ELLEGO™ HYBRID CCR

# 6.6 A & Low Current In the same unit

The ELLEGO™ Hybrid CCR combines traditional 6.6 A CCR operation with modern low current AGL technology.

The hybrid functionality guarantees a future proof choice as a series circuit power supply.

- CCR mode for 2.8 A - 6.6 A series circuits
  - Compatible with 6.6 A light fixtures, including LED and halogen
- PECS mode for low current series circuits
  - Current range from 0.05 A to 3.3 A
  - Compatible with ELLED™ Driverless AGL and other low current light fixtures

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

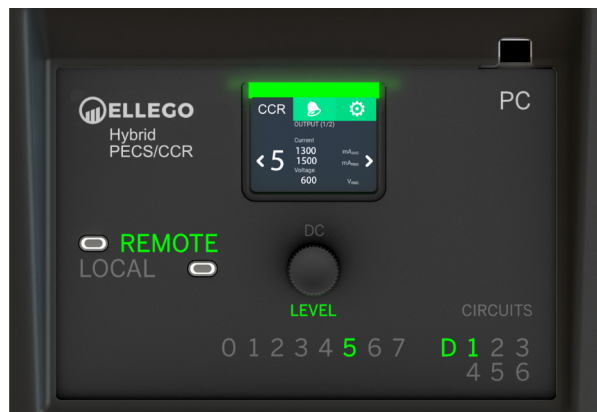


[www.ellego.fi/agl](http://www.ellego.fi/agl)

## ELLEGO™ HYBRID CCR

### Key Features and Benefits

- A future proof hybrid of 6.6 A and low current technologies
- Sine wave current in both CCR and PECS modes
- 3-phase input for improved phase balancing
- Modern user-friendly interface for easy commissioning and maintenance
- WEB interface for:
  - Easy configuration and parameter settings
- Access to history logs and fault and warning information
- Easy applicability for off-grid and battery backed-up systems



### Functionality Highlights

- 7 configurable intensity levels
- Status indication
- Earth fault detection (optional)
- Open secondary fault detection
- Circuit selector (optional)
- Circuit direction changer (optional)

<b>Technology</b>	Microprocessor controlled IGBT based power supply
<b>Input AC</b>	3-phase 400 Vac $\pm 10\%$ , 10 Arms nominal, 50/60 Hz
<b>Input DC</b>	DC supply optionally available
<b>Output CCR</b>	Maximum 600 Vac, 50 Hz, 2.8 - 6.6 Arms, 4 kVA, Sinusoidal
<b>Output PECS 1200</b>	Maximum 1200 Vac, 100 Hz, 0.05 - 3.3 Arms, 4 kVA, Sinusoidal
<b>Output PECS 1500</b>	Maximum 1500 Vac, 100 Hz, 0.05 - 2.5 Arms, 4 kVA, Sinusoidal
<b>User Interface</b>	Touch display, local maintenance web pages, status indication color theme
<b>Remote Control</b>	Dual Modbus TCP/IP, Parallel relays (14 inputs, 30 outputs), Profibus DP
<b>Mechanical</b>	W448 mm x D724 mm x H1552 mm, 160 kg, IP20, max 1000 m above sealevel

### The ELLEGO™ CCR technology

The ELLEGO™ Hybrid CCR is designed to breach the gap between the traditional 6.6 A and the modern LED-specific series circuit technologies. It is a next generation IGBT-controlled sine wave power supply adhering to the IEC 61820-3-2 standard, with a total current range from 0.05 to 6.6 Amperes.

This current range allows operating both traditional 2.8 - 6.6 A based series circuits and low current LED circuits in two separate operation modes: CCR mode and PECS mode.

The low current PECS mode culminates in the capability to directly control the LED current, rendering the possibility to operate Driverless ELLED™ AGL circuits.

### Driverless LED - passive light source providing reliability and efficiency

The Driverless LED technology simplifies the powering of LED-based AGL fixtures by eliminating control electronics within the fixtures. This design enhances both durability and energy efficiency through reduced energy losses in the fixtures and the entire series circuit. The ELLED™ power control system operates the AGL series circuit with currents suited for LEDs, much like traditional halogen-based circuits, where a single power supply directly controls the fixtures' luminous output.

## ELLEGO™ HYBRID CCR

### ENVIRONMENTAL & STANDARDS

Operating temperature	+5 ... +40 °C, indoor temperature range (class 3K3)
Humidity	10 – 95 % non-condensing
Altitude	1000 m above sea level
Protection class	IEC 60529, IP20
EMC Emission	IEC 61000-6-4, CISPR 11
EMC Immunity	IEC 61000-6-5
Safety	IEC 62477-1 and 62477-2 (Electric hazards)
Product Requirement	IEC 61820-3-2

### RATED INPUT

Input voltage	3-Phase 400 Vac $\pm$ 10 %
Input current	10 Arms
Input frequency	50/60 Hz
Input power	5.7 kVA

### RATED OUTPUT CCR MODE

Output voltage	600 Vac
Output current range CCR	2.8 – 6.6 Arms
Output frequency range	50 Hz
Output power	4 kVA

### RATED OUTPUT PECS MODE

Output voltage	1500 Vac	1200 Vac
Output current range CCR	0.05 – 2.5 Arms	0.05 – 3.3 Arms
Output frequency range	100 Hz	100 Hz
Output power	4 kVA	4 kVA

### MECHANICAL

Width	448 mm
Height	1373 mm. Max. 1552 mm with wheels and lifting eye.
Depth	683 mm. Max. 726 mm with wheels
Weight	160 kg

### CONTROL

Parallel relay control	14 input relays (12 - 72 Vdc) 30 output relays (max 120 Vdc)
Fieldbus control	Modbus TCP/IP (default, optionally redundant) Profibus DB (option)
Local control	Rotary switch (Brightness level control) Local/Remote selection buttons GUI (Resistive colour touch screen 3,5 ") PC control - WEB interface (Ethernet/RJ45)

## ELLEGO™ HYBRID CCR

### FUNCTIONALITY

Brightness levels	7 individually configurable
User interface languages	English, others on request
Screen type	Resistive colour touch screen 3,5"
Status indication	Colour coded visual: Green/Yellow/Red
Usage data	Active faults/Fault history Brightness level usage hours Event logs
Multi-function rotary encoder	Menu browsing, data input

### MONITORING

Output current	Arms, Amean
Output voltage	Vrms
Output power	W/VA
Input power	W
Input voltage	Vrms

### FAULT MONITORING

Output fault detections	Open circuit Overcurrent Current fault Lamp fault (open secondary detection) Earth fault (option)
Input fault detection	Mains supply voltage

### OPTIONS

Earth fault monitoring	10 kΩ – 2 GΩ
Circuit selector	2 - 6 circuits
Direction changer	2 circuits
DC Input	Optionally available



**Turn on the solutions.**



[agl@ellego.fi](mailto:agl@ellego.fi)

Linnapellontie 18, FI-24910 Halikko as, Finland /// Tel: +358 (0)2 737 250 /// [www.ellego.fi/agl](http://www.ellego.fi/agl)