

Constant Current Regulator

Ferroresonant Standalone Style



As an integrated solutions provider, Empower's speciality is in providing customized, highly reliable, cost effective and site maintainable equipment to airports of all sizes.

Empower's line of Constant Current Regulators are no exception, utilizing proven and recognizable components (such as Warner Bay DCMU's) that have been providing more than 15 years of reliable service at airports around the globe. While at the same, further enhancing the designs to ensure truly scalable and future-proof solutions as airfield lighting needs continue to evolve.

Available in a wide range of input and output ratings, and with the ability to provide customized enclosures capable of mating to legacy equipment, Empower is sure to have a solution for your specific airport needs.



Highlights

- Digital control providing high degree of accuracy and configurability for varying loads
- Increased lamp life through consistent digital output.
- High Power Factor - .99, high step fully loaded
- Ferroresonant design provides a stable output current that is not affected by flashing loads.
- Passive cooling
- Membrane keypad for ease of use even when wearing gloves
- Stackable configurations
- 1-5 Brightness Steps
- Over-current, open-circuit, over-voltage protection
- Input and output lightning protection
- Door open safety interlock switch

Design Requirements

- FAA AC 150/5345-10
- Transport Canada CCR Specification K290-2
- Canadian Department of National Defence Standards
- ICAO Aerodrome Design Manual

Common Sizes

Rating	Enclosure Size
1kW - 10kW	24"W x 24"D x 40"H
15kW - 30kW	36"W x 30"D x 40"H

Ordering Code

FR - -

Type
 828=Ferroresonant L828
 829=Ferroresonant L829

Output Rating
 1=1kW 10=10kW
 2=2kW 15=15kW
 4=4kW 20=20kW
 5=5kW 25=25kW
 7=7.5kW 30=30kW

Class
 A=6.6 Amp
 B=20 Amp

Input Voltage
 1=208VAC, 60Hz
 2=220VAC, 60Hz
 3=240VAC, 60Hz
 4=480VAC, 60Hz
 5=600VAC, 60Hz

Control Voltage
 A=24VDC Internal
 B=24VDC External
 C=48VDC Internal
 D=48VDC External
 E=120VAC Internal
 F=120VAC External

Brightness Steps
 1=Single Step
 2=3 Step
 5=5 Step

Options
 01=S-1 cutout installed
 02=Insulation Resistance Monitoring (Automatic Megger)
 03=Input Power Monitoring (current, voltage, VA, power power factor)
 04=Output Power Monitoring (voltage, VA, power, power factor)
 05=Integral Circuit Breaker
 06=Single Ethernet/IP Interface
 07=Dual Ethernet/IP Interface
 08=Single ModTCP Ethernet Interface
 09=Dual ModTCP Ethernet Interface
 10=Single RS-485 and Single Ethernet/IP Interface
 11=Dual RS-485 Interface
 12=Castors
 13=Stacking Kit
 14=Custom Enclosure
 15=Custom Color (ASA 61 Grey Std.)
 16=Input and Output Surge Arrestors (Std.)