

# REGF

## Constant Current Regulators - Ferroresonant

Compliances:

FAA AC 150/5345-10: L-828

ICAO Aerodrome Design Manual, Part 5

Large/30kW Unit



### Applications

The REGF Constant Current Regulator is designed to provide precision control of runway lighting circuits. The equipment can be supplied with a wide range of control and monitoring options.

These regulators are air cooled and designed for indoor service.

### Features



- ETL Certified
- Air cooled
- Ferroresonant Design
- Built-in digital ammeter(0.5% accuracy)
- Low Total Harmonic Distortion (THD)<10%
- Clean output sinusoidal wave form
- Stackable design (2 High Max)
- Regulation  $\pm 1\%$  over 0 to 100% load and +10% to -5% line voltage with no tap changes
- On-off switching under load
- Lightning and transient protection: input and output lines
- Efficiency – 90% minimum (High step, fully loaded)
- High power factor .99 (High step, fully loaded)
- Remote reset capability
- Output current maintained with 30% open isolation transformer secondaries
- Open circuit protection
- Over current protection
- Soft On/Off
- 10,000 feet remote control @ 120V
- Temperature – 40°C to +55°C
- Single control board for all sizes
- Rotary switch for step-control
- Field selectable brightness steps (1, 3, 5)
- Hinged front door with key lock handle

### Ordering Information

8 2 8 6 0 F 2 - - - -

Fixture Type:  
8 = L-828

Frequency:  
6 = 60Hz

RegulatorType:  
F = Ferroresonant

Cabinet Size:  
2 = Full-Size

Input Voltage:  
208 = 208 V, 60 Hz  
220 = 220 V, 60 Hz  
240 = 240 V, 60 Hz  
480 = 480 V, 60 Hz

Kilowatt Rating:  
30 = 30 kW, 6.6A  
31 = 30 kW, 20A

Output Brightness Steps:  
1 = 1 Step (5.5A)  
3 = 3 Step (4.8, 5.5 & 6.6 A)  
5 = 5 Step (2.8, 3.4, 4.1, 5.2 & 6.6 A)

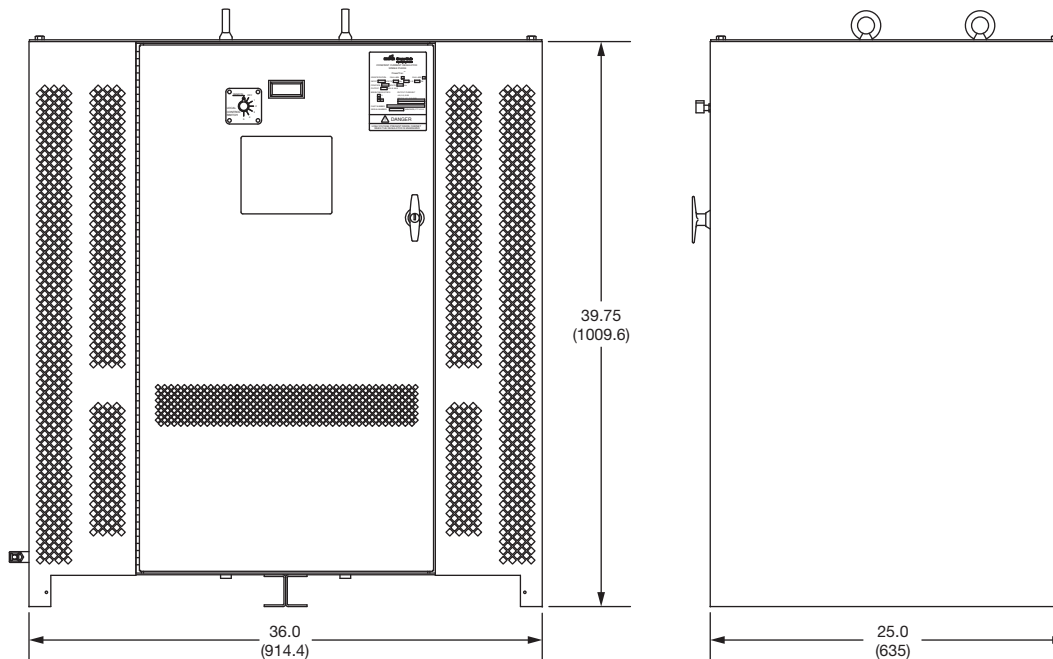
Options:  
B = Integral circuit breaker  
C = Computer ready interface\*  
D = Digitrac™ computerized control and monitoring system (Includes option C)  
M2 = Integral Megatrac earth leak detector (includes option S2)\*\*  
S2 = Integral S-1 Cutout Model 2  
V = DC Remote Control, internally supplied (24, 48 & 60 VDC)  
S506A = Load Volts Metering\*\*

\* Includes potential and current transformers and relay contacts for indication of loss of input power and local/remote control.

\*\* Regulator cannot be ordered with both M2 and S506A options.

Standard remote control voltage is 120 VAC.

## Outline Drawing



## Technical Data

### Power Factor/Efficiency Data (100% load/30kw)

5 - Brightness Step CCR		
Step (output)	Power Factor	Efficiency%
B5 (6.6A)	0.99	93%
B4 (5.2A)	0.98	91%
B3 (4.1A)	0.98	90%
B2 (3.4A)	0.92	88%
B1 (2.8 A)	0.74	85%

Dimensions:	inches (mm)
Instruction Manual:	2349
Shipping Weight:	1,635 lbs. 742 kg.
Shipping Volume:	20.7 cu.ft. 0.58 cu.m.

## Renewal Parts

Description	Part Number	Description	Part Number
Capacitor, 50uF, 660 VAC	32990	Main printed circuit card, for use with Option V	34031-1V
Display printed circuit card	32752	Solid State Relay & Thermal Pad	34207
Main printed circuit card, 120 VAC internal control voltage	34031-1	Switch knob	10041-31

