

# REGF

## Constant Current Regulators - Ferroresonant

Compliances: FAA AC 150/5345-10: L-828  
ICAO Aerodrome Design Manual, Part 5



**REGF2**

### 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.

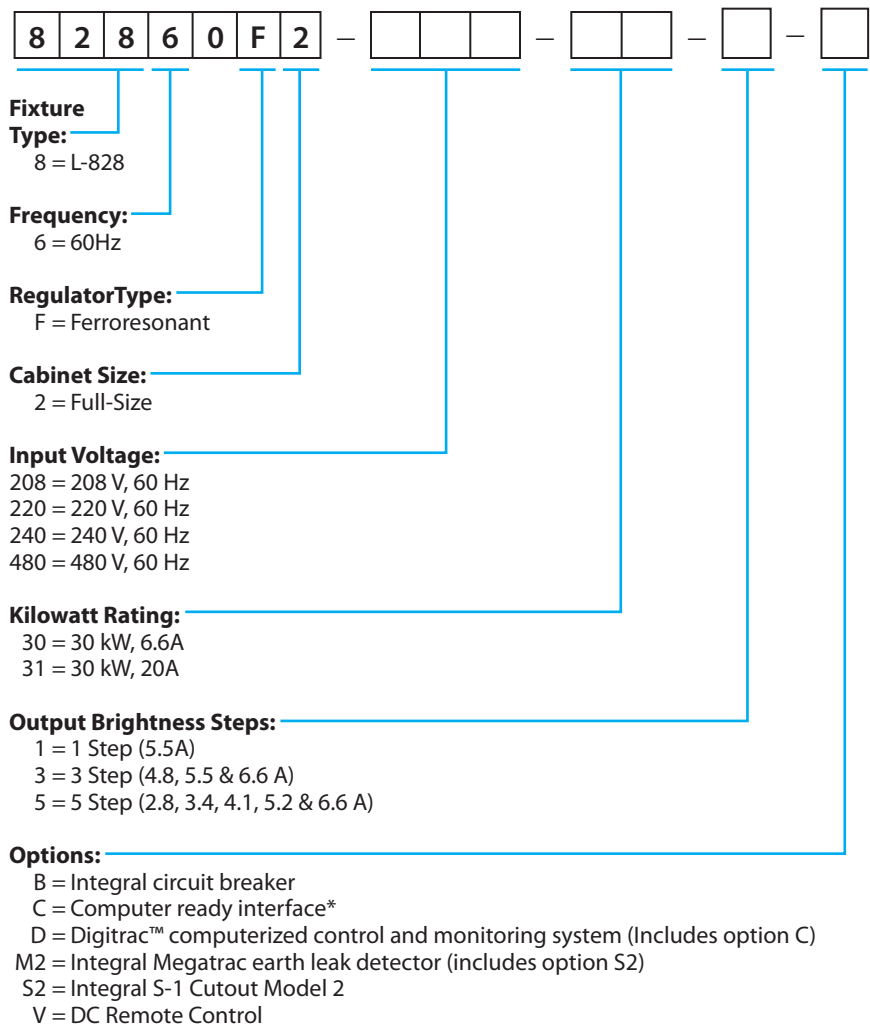
These regulators are air cooled and designed for indoor service.

#### 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

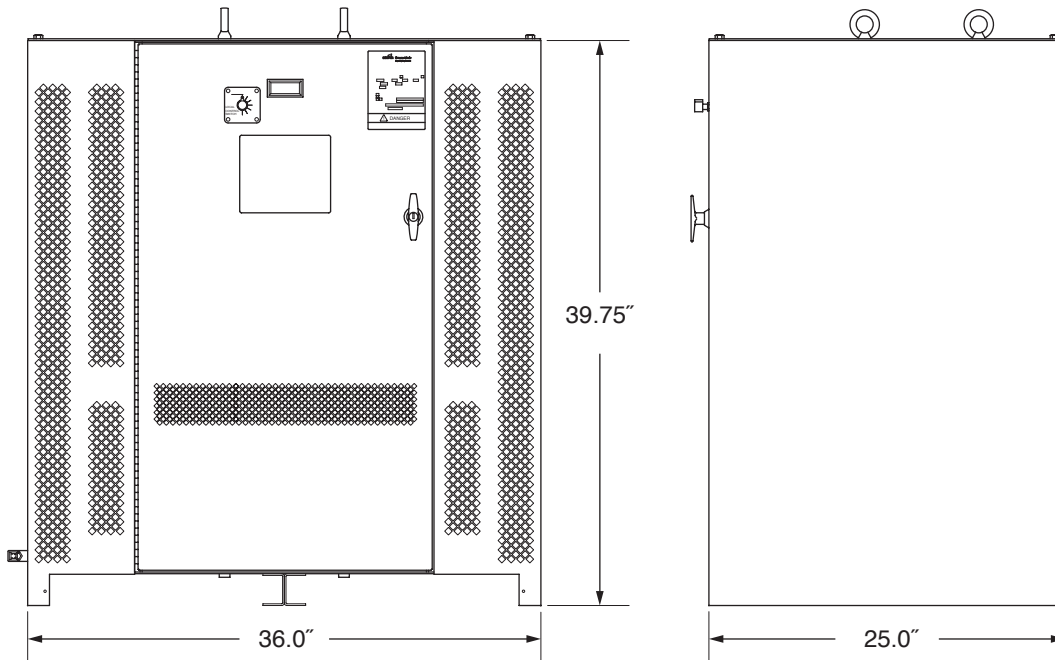
#### Ordering Information



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

Standard remote control voltages are 24 Vdc, 48 Vdc, 60 Vdc & 120 Vdc, 60 Hz.

## Outline Drawing



## Technical Data

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

5 - Brightness Step CCR		
Step (output)	Power Factor	Efficiency%
B5 (6.6A)	.99	93%
B4 (5.2A)	.98	91%
B3 (4.1A)	.98	90%
B2 (3.4A)	.92	88%
B1 (2.8 A)	.74	85%

<b>Dimensions:</b>	inches (mm)
<b>Instruction Manual:</b>	2349
<b>Shipping Weight:</b>	1,635 lbs. 742 kg.
<b>Shipping Volume:</b>	20.7 cu.ft. .58 cu.m.

## Renewal Parts

Part Number	Description
10041-31	Switch knob
32752	Display printed circuit card
34031-1	Main printed circuit card, 120 VAC internal control voltage
34031-1V	Main printed circuit card, for use with Option V
10047-2789	Solid State Relay
32990	Capacitor, 50uF, 660 VAC
10047-2937	Thermal pad for solid state relay

