

REGF

Constant Current Regulators - Ferroresonant

Compliances:

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

Small/4-10kW 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 (3 High Max)
- Regulation ±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

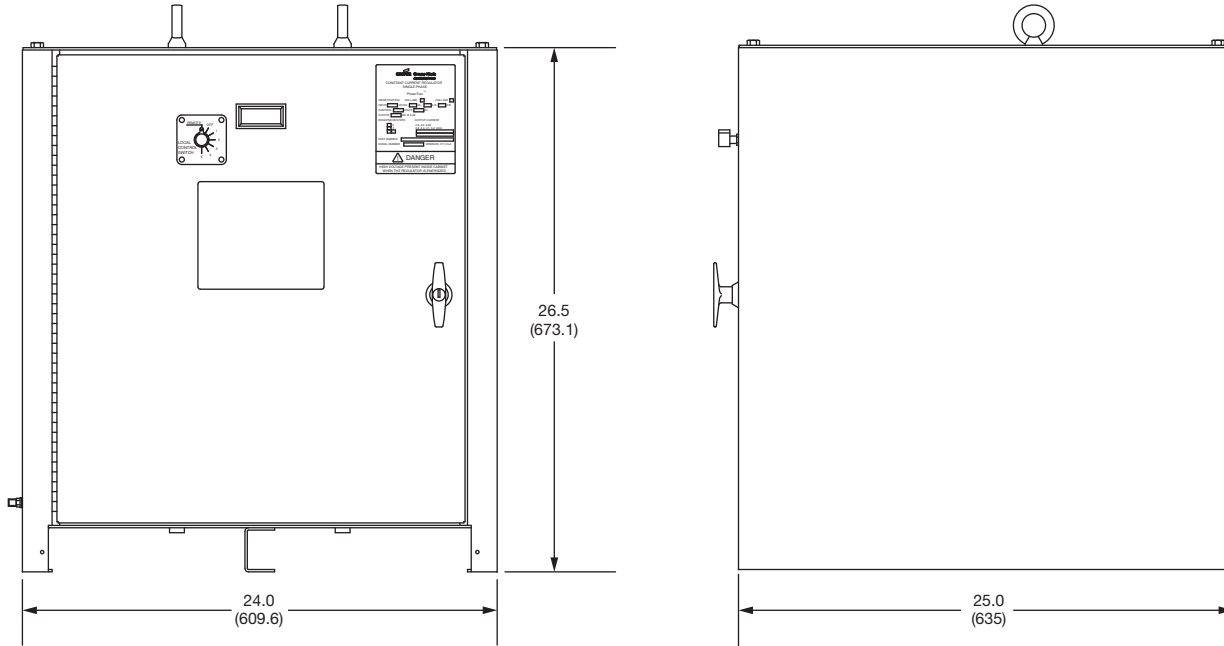
	8	2	8	6	0	F	-						
Fixture Type:	8 = L-828												
Frequency:	6 = 60Hz												
RegulatorType:	F = Ferroresonant												
Input Voltage:	208 = 208 V, 60 Hz		220 = 220 V, 60 Hz		240 = 240 V, 60 Hz		480 = 480 V, 60 Hz						
Kilowatt Rating:	04 = 4.0 kW		07 = 7.5 kW		10 = 10 kW								
Output 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/10kw)

5 - Brightness Step CCR		
Step (output)	Power Factor	Efficiency%
B5 (6.6A)	0.99	93%
B4 (5.2A)	0.98	93%
B3 (4.1A)	0.98	91%
B2 (3.4A)	0.98	89%
B1 (2.8 A)	0.79	84%

Dimensions:	inches (mm)		
Instruction Manual:	2501		
Shipping Weight:	4Kw	7.5Kw	10Kw
	490 lbs. 222 kg.	581 lbs. 264 kg.	711 lbs. 323 kg.
Shipping Volume:	9.2 cu.ft.	9.2 cu.ft.	9.2 cu.ft.
	0.26 cu.m.	0.26 cu.m.	0.26 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

* Serial Number units prior to 300 consult factory.

