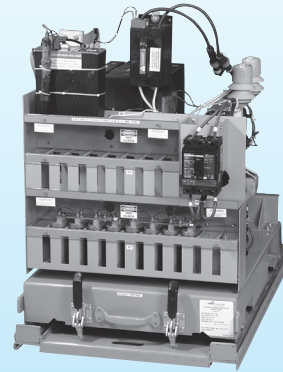


# CCR-SGS

## Constant Current Regulator - Switchgear System



**CCR-SGS**

**Compliances:** FAA AC 150/5345-10: L-828

### Applications

The Crouse-Hinds Constant Current Regulator-Switchgear System (CCR-SGS) utilizes Ferroresonant Transformer technology for the distribution of electrical power and the precision control of airfield lighting circuits. The equipment meets all applicable FAA standards, integrates enhanced safety features, provides for cost-effective installation and serviceability, is air-cooled and designed for indoor installations.

### Features



- ETL Certified
- Superior power factor and efficiency over all steps (Refer to Table A, next page)
- Superior low-line harmonics and low EMI characteristics
- Standardized design for maximum space utilization
- Modular construction for interchangeability
- Integrated Model 2 S-1 Cutout provides added safety during servicing
- Diagnostic LEDs, and digital ammeter for enhanced troubleshooting capabilities
- Capability for line and load circuit switching while in operation
- Lightning protection for both input and output lines
- Integrated soft start and remote reset functions
- Internal 120VAC Control Voltage
- Integral Circuit Breaker
- Rotary Switch off/remote & step control
- Air Cooled
- Designed for Indoor Installation

### Ordering Information



**Fixture Type:**  
L-828

**Switchgear CCR Model:**

**Input Voltage:**  
480 = 480 V, 60 Hz

**Kilowatt Rating:**

- 04 = 4.0 kW (6.6A Unit Only)
- 07 = 7.5 kW (6.6A Unit Only)
- 10 = 10 kW (6.6A Unit Only)
- 15 = 15 kW, 6.6A
- 16 = 15 kW, 20A
- 20 = 20 kW, 6.6A
- 21 = 20 kW, 20A
- 30 = 30 kW, 6.6A
- 31 = 30 kW, 20A

**Output Brightness Steps:**

- 1 = 1 Step (5.5 A, not available with 20 A units)
- 3 = 3 Step
- 5 = 5 Step

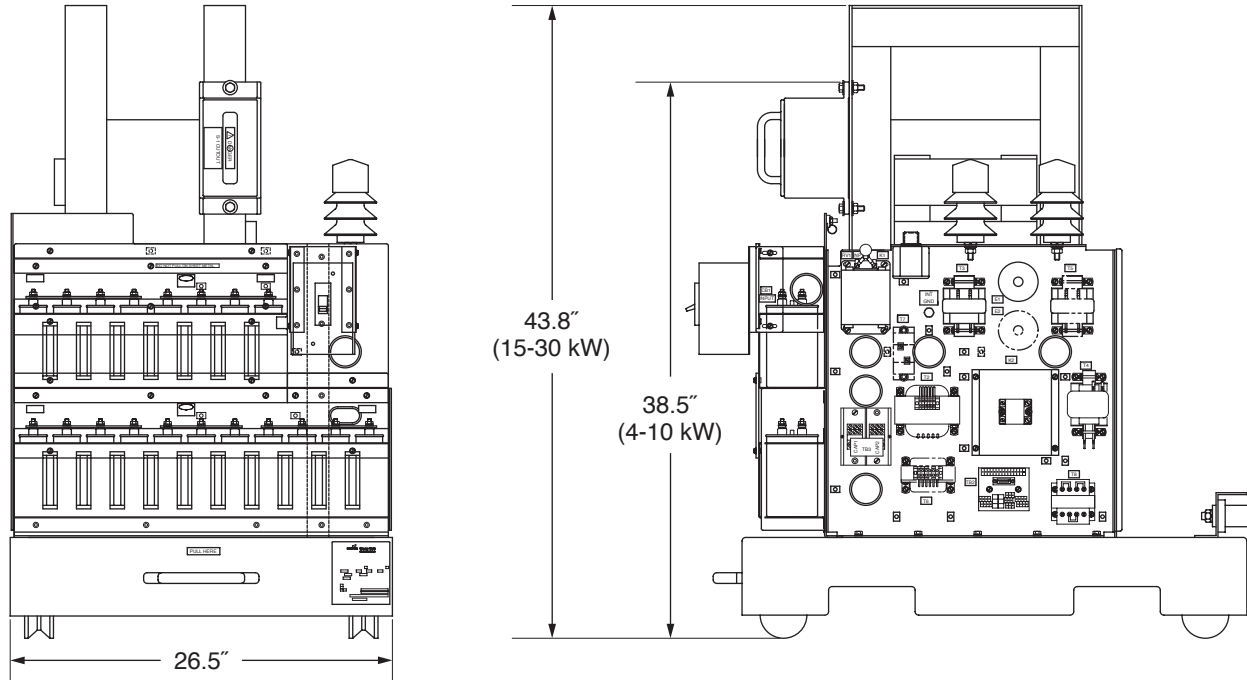
**Options:**

- C = Computer ready interface\*
- D = Digitrac™ computerized control & monitoring system (includes option C)
- M = Megatrac™ Integral earth leakage detector
- V = DC Remote Control

\* Potential & current transformer included, Circuit Board with relay contacts for loss of input power & local/remote control.

Standard remote control Voltages are 24, 48, 60 VDC & 120 VAC, 60 Hz.

## Outline Drawing



## Technical Data

Table A – Power Factor/Efficiency Data (100% load)

5-Brightness step CCR			3-Brightness step CCR		
Step (output)	Power Factor	Efficiency%	Step (output)	Power Factor	Efficiency%
B5 (6.6 A or 20 A)	.99	94%	B100 (6.6 A or 20 A)	.99	93%
B4 (5.2 A or 15.8 A)	.99	93%	B30 (5.5 A or 16.5 A)	.98	91%
B3 (4.1 A or 12.4 A)	.94	91%	B10 (4.8 A or 14.4 A)	.79	84%
B2 (3.4 A or 10.3 A)	.87	89%	—	—	—
B1 (2.8 A or 8.5 A)	.79	81%	—	—	—

## 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 - 4-30 kW unit
32990	Capacitor, 50uF, 660 VAC
10047-2937	Thermal pad for solid state relay

<b>Instruction Manual:</b>	2447		
<b>Shipping Weight:</b>	<b>4 kW–10 kW</b>	<b>15 kW–20 kW</b>	<b>30 kW</b>
	1230 lbs. 558 kg	1435 lbs. 651 kg	1650 lbs. 748 kg
<b>Shipping Volume:</b>	36 in. W x 48 in. D x 57 in. H		

