

L-828/L-829 Ferroresonant Constant Current Regulator



Compliance and Applications

Certified to FAA AC 150/5345-10 (Current Edition)

Our L-828 / L-829 Constant Current Regulator is used to provide power to airfield lighting systems. It offers a selectable AC constant current to change the airfield lighting intensity as needed based on weather conditions.

Features

- Ferroresonant design allows for high-efficiency, high-power factor sinusoidal constant current output
- Efficiency over 90%, power factor .99
- Stable output current is not affected by flashing loads from strobes or runway guard lights
- Intuitive, fully digital interface included on all models
- Powerful software allows CCR to be recalibrated in field, recall previous settings and calibration, change brightness steps, track warnings and faults, and more
- Digital output current reading and digital output voltage reading on all models
- High quality lightning arrestors used for output connections
- Transient protection on input power circuit ensures long CCR life and equipment protection
- Open circuit, overcurrent, and overvoltage protection on all models
- Safety interlock disconnects output power when cabinet door is opened
- Quiet operation
- Stackable
- Enclosure size:
 - 1kW-10kW: 24"W x 25.25"D x 40"H
 - 15kW-30kW: 36"W x 30.25"D x 40"H

Additional Option Information

- **Internal S-1 Cutout:** An S-1 Cutout is installed directly in the enclosure of the CCR. Once the CCR is turned off, the S-1 Cutout handle may be removed and taken with servicing personnel to ensure safe work conditions.

- **IRMS:** The IRMS (Insulation Resistance Monitoring System) can be configured to run manually or daily. With this option, the CCR will provide a digital resistance measurement to the user on the front display. The resistance reading can be tracked by site staff to gain insight to field-circuit integrity and to anticipate required maintenance.
- **Integrated Circuit Breaker:** A circuit breaker is included inside the CCR that is actuated with a door-mounted handle. The door-mounted handle is capable of accepting a lock for lock-out-tag-out safety measures.

Ordering Codes

Type	Output Rating	Class	Input Voltage	Control Voltage	Brightness Steps	Options
FR828: L828 FR829: L829	1: 1kW 2: 2kW 4: 4kW 5: 5kW 7: 7.5 kW 10: 10kW 15: 15kW 20: 20kW 25: 25kW 30: 30kW 50: 50kW* 70: 70kW*	A: 6.6 Amp B: 20 Amp	1: 208 VAC, 60Hz 2: 220 VAC, 60Hz 3: 240 VAC, 60Hz 4: 480 VAC, 60Hz 5: 220 VAC, 50Hz* 6: 230 VAC, 50Hz* 7: 240 VAC, 50Hz* 8: 380 VAC, 50Hz* 9: 400 VAC, 50Hz*	A: 24 VDC Internal B: 24 VDC External C: 48 VDC Internal D: 48 VDC External E: 120 VAC Internal F: 120 VAC External	1: Single Step 3: 3-Step 5: 5-Step	1: S-1 Cutout installed 2: Insulation Resistance Monitor (Automatic Megger) 3: Input Power Monitoring (current, voltage, VA, power, power factor) 4: Output Power Monitoring (voltage, VA, power, power factor) 5: Integral Circuit Breaker 6: Single Ethernet/IP Interface 7: Dual Ethernet/IP Interface 8: Single Mod/TCP Ethernet Interface 9: Dual Mod/TCP Ethernet Interface 10: Single RS-485 & Single Ethernet/IP Interface 11: Dual RS-485 Interface 12: Castors

* Compliant to FAA Specification.

Replaceable Parts List

Part Number	Description
82-88	5A Fuse for FA1, FA2
82-76	5A Fuse for FA3
82-77	2.5A Fuse for FA4
82-78	1A Fuse for FA5
82-60	DCMU Controller
290-280A05	Firing Card Assembly
290-280A06	Firing Card with Megger Assembly
282-10030	Front Panel Display Assembly
82-45	Display Cable
55-00201	Door Switch/Safety Interlock
282-10005	Contactors MOV Assembly
282-10002	Snubber Assembly

Shipping & Sizing Information

kW Rating	CCR Ship Weight (No Options)	Shipping Size (With Pallet)	CCR Install Weight (No Options)	Install Size (Without Pallet)
1	300 lb.	30" W x 31" D x 45" H	280 lb.	24" W x 25.25" D x 40" H
2	350 lb.	30" W x 31" D x 45" H	330 lb.	24" W x 25.25" D x 40" H
4	400 lb.	30" W x 31" D x 45" H	380 lb.	24" W x 25.25" D x 40" H
5	450 lb.	30" W x 31" D x 45" H	420 lb.	24" W x 25.25" D x 40" H
7.5	530 lb.	30" W x 31" D x 45" H	510 lb.	24" W x 25.25" D x 40" H
10	630 lb.	30" W x 31" D x 45" H	610 lb.	24" W x 25.25" D x 40" H
15	865 lb.	40" W x 36" D x 45" H	835 lb.	36" W x 31.25" D x 40" H
20	1,100 lb.	40" W x 36" D x 45" H	1,070 lb.	36" W x 31.25" D x 40" H
25	1,300 lb.	40" W x 36" D x 45" H	1,270 lb.	36" W x 31.25" D x 40" H
30	1,450 lb.	40" W x 36" D x 45" H	1,420 lb.	36" W x 31.25" D x 40" H