



# L-828/L-829 Ferroresonant Constant Current Regulator



## Compliance and Applications

- FAA: AC 150/5345-10, ETL Certified (Current Edition)
- ICAO: NAVAIR 51-50AAA-2; UFC 3-535-02; Annex 14; Aerodrome Design Manual Part 5

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, over-current, and over-voltage protection on all models
- Safety interlock disconnects output power when cabinet door is opened
- Quiet operation
- Stackable

## 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.

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## Ordering Codes

Type	Output Rating	Class	Input Voltage	Control Voltage	Brightness Steps	CCR Options	COMM Options	Installation Options
FR828: L828	1: 1kW	A: 6.6 Amp	1: 208 VAC, 60Hz	A: 24 VDC Internal	1: Single Step - 5.5A	0: None	N: None	0: None
FR829: L829	2: 2kW	B: 20 Amp	2: 220 VAC, 60Hz	B: 24 VDC External	(default), or other as specified	1: S-1 Cutout installed	A: Dual Ethernet (ModTCP or Ethernet/IP)	1: Castors
	4: 4kW		3: 240 VAC, 60Hz	C: 48 VDC Internal	3: 3-Step - 4.8A, 5.5A, 6.6A	2: Insulation Resistance Monitor (Automatic Megger)	B: Dual Ethernet (ModTCP or Ethernet/IP) & Dual RS-485	2: Lift Kit
	5: 5kW		4: 480 VAC, 60Hz	D: 48 VDC External	5: 5-Step - Class 1 is 2.8A, 3.4A, 4.1A, 5.2A, 6.6A; Class 2 is 8.5A, 10.3A, 12.4A, 15.8A, 20A	3: Input Power Monitoring (current, voltage, VA, power, power factor)	C: Dual Ethernet w/ PoE (ModTCP or Ethernet/IP)	
	7: 7.5 kW		5: 220 VAC, 50Hz*	E: 120 VAC Internal		4: Output Power Monitoring (voltage, VA, power, power factor)	D: Dual Ethernet w/ PoE (ModTCP or Ethernet/IP) & Dual RS-485	
	10: 10kW		6: 230 VAC, 50Hz*	F: 120 VAC External		5: Integral Circuit Breaker		
	15: 15kW		7: 240 VAC, 50Hz*			6: Current Sensing Relay		
	20: 20kW		8: 380 VAC, 50Hz*					
	25: 25kW		9: 400 VAC, 50Hz*					
	30: 30kW							
	50: 50kW*							
	70: 70kW*							

\* Compliant to FAA Specification.