



Flight Light Inc.
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95822-3806



Smart Power Constant Current Regulator FAA L-828 & L-829

PH (916) 394-2800 FX (916) 394-2809
TF (800) 806-3548 EM info@flightlight.com

Compliance

Certified FAA L-828 & L-829
AC 150/5345-10H

Applications

Our microprocessor controlled, ferromagnetic reactor type, air-cooled regulators provide precision control of runway lighting series circuits in medium and high intensity applications.

Features

- Microprocessor control for reliable current regulation.
- Proven technology for airfield lighting.
- Reliable for long life with low life cycle cost.
- Exceeds FAA performance requirements.
- Durable for various electrical vault environments.
- Versatile for medium and/or high intensity lighting.
- Self-protected from overloads and shorts of loads.
- Noise emission free.
- Air cooled - no hazardous cooling materials.
- No harmful harmonics.
- No SCRs in series power circuits.
- Predictable - no complex electronics.
- Easily maintained.
- Control circuit for remote operation of #19 AWG 10,000 ft. round-trip.
- Control circuits protected by circuit breakers, no spare fuses needed.
- Warranty for 2 years from date of shipment or 1 year from date of installation (first occurring).

Standard Equipment

- User connections readily accessible.
- Floor mounted stand alone enclosure for ease of parts replacement.



*Ferromagnetic Reactor Type,
Air Cooled,
Comparable to Ferro-resonant Type*



- Stackable kits optional.
- Primary surge arresters.
- Primary switch for regulator control.
- Control switch for "Remote" (tower) control and "Local" (direct) control.
- Internally provided 120 VAC control and equipped for external supply connection.
- Control circuit protection by circuit breaker with visual indicator.
- Reliable custom transformer design with microprocessor control for output current.
- Efficiency and power factor exceed FAA requirements.
- Performance comparable to Ferro-resonant Type.
- Tapped Output for 50% and 75% load (Standard) for improved efficiency and power factor.
- Other output taps available upon request.
- Precisely controls output current for loads of short circuit to full load and for varying input voltages for -5% to +10% of nominal input with 30% lamps outage.
- Regulator shuts down system for open circuit or overcurrent in the load.
- Output distribution type lightning arresters.
- Output electrically isolated from primary.
- Microcontroller board interchangeable for different KW sizes and different output currents and steps. Easy change 3 step or 5 step.
- Long life LED indicators for:
 1. Input Power ON
 2. Regulator ON
 3. Fault for Open Circuit or Overcurrent
 4. Diagnostic LEDs on the Control Board

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**Smart Power
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FAA L-828 Regulators

Description

Ferromagnetic Reactor Saturable Type
 (Air Cooled)

Catalog No.	KW	Class	Style
MG02L8283B-**	2	1	1
MG02L8285B-**	2	1	2
MG04L8283B-**	4	1	1
MG04L8285B-**	4	1	2
MG07L8283B-**	7.5	1	1
MG07L8285B-**	7.5	1	2
MG10L8283B-**	10	1	1
MG10L8285B-**	10	1	2
MG15L8283B-**	15	1	1
MG15L8285B-**	15	1	2
MG20L8283B-**	20	1	1
MG20L8285B-**	20	1	2
MG25L8283B-**	25	1	1
MG25L8285B-**	25	1	2
MG30L8283B-**	30	1	1
MG30L8285B-**	30	1	2
MG30L82820-**	30	2	2
MG50L82820-**	50	2	2

** = 01 for 208 volt 60 hertz input
 ** = 02 for 240 volt 60 hertz input
 ** = 03 for 480 volt 60 hertz input
 ** = 04V for 2400 volt 60 hertz input

First two digits of supply volts for special input voltage followed by first digit of hertz. Example: 380volt 50 hertz = suffix-385

FAA L-829 Regulators with L-827 Monitor change Catalog No. "L828" to "L829"

Class 1 = 6.6 Amp Style 1 = 3 step
 Class 2 = 20 Amp Style 2 = 5 step

FAA L-827 Monitor

Description	Catalog No.*	Class	Style*
For 2 & 4KW Regulator	MGML8273B-01	1	1
For 7.5KW Regulator	MGML8273B-02	1	1
For 10KW Regulator	MGML8273B-03	1	1
For 15KW Regulator	MGML8273B-04	1	1
For 20KW Regulator	MGML8273B-05	1	1
For 25 & 30KW Regulator	MGML8273B-06	1	1
For 25 & 30KW Regulator	MGML8275B-07	2	2
For 50KW Regulator	MGML8275B-08	2	2

Remarks - For adding to 3 step regulator

* For Style 2, 5 Step Regulator, change 3B to 5B in Catalog No.

CCR Optional Equipment

FAA L-827 Monitor with regulator change catalog L-828 to L-829.

Suffix

Adder	Description
24VDC	Special Control Voltage 24VDC (10,000 ft. one way control)
48VDC	Special Control Voltage 48VDC (10,000 ft. one way control)
ALCMS	Dry Contacts for ALCMS connections
ETMT	Elapsed Time Meter in Hours for Total Time On
ETMM	Elapsed Time Meter in Hours for Time on Maximum Brightness
IAM	Input Ammeter (with current transformer)
IRMS	Insulation Resistance Monitor (Megger) System
IPOL	Input Power on Light Indicator (dual lights for failure back-up)
IVM	Input Voltmeter (with potential transformer if needed)
R	For operation with L-849 REILs, on runway circuit. Not required for stand alone or dedicated REILs.
WM	Input Wattmeter (with C.T. and P.T. as need)
OSI	Output Current Indicator with relay dry contacts (for remote indicator)
OCL	Output Current Indications with Light Indicator (local indicator)
OCI	Internal Series Plug Cut-out
OSCK	Output Short Circuit Jumper Kit
OVM	Output Voltmeter (with potential transformer)
OWT	Output Watts Transducer
OWM	Output Wattmeter, Amps, Volts, VA, & Power Factor (with current and potential transformers)
SCO	Internal SCO Cut-Out
ODM	Output Digital Meter Amps, Volts, VA, Watts

Other specific site requirements and options available upon request.

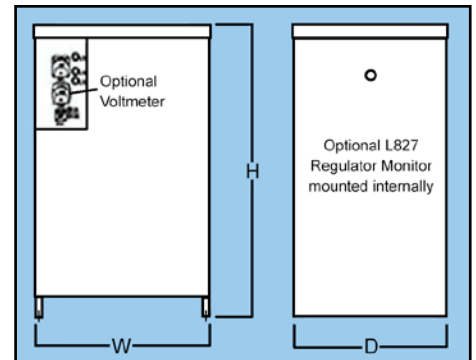
Regulator Weights (approx.)

2KW	400 lb.
4KW	450 lb.
7.5KW	750 lb.
10KW	800 lb.
15KW	900 lb.
20KW	1050 lb.
30KW	1350 lb.
50KW	2300 lb.

Regulator Dimensions

	2 & 4KW	7.5, 10, 15KW	20 & 30KW	30** KW	50 KW
H	36"	47"	47"	70"	70"
W	24"	28"	34"	36"	44"
D	21"	28"	30"	32"	36"

* Status Monitor (L827) mounted in CCR control cabinet.
 ** 30KW 208, 240, and 2400VAC Units, add 300 lb.



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