

Constant Current Regulators-Dry

Compliances: FAA AC 150/5345-10: L-828 and L-829
ICAO Aerodrome Design Manual, Part 5
USAF Regulation AFM 32-1076
USN NAVAIR 51-50AAA-2




REGD

Applications

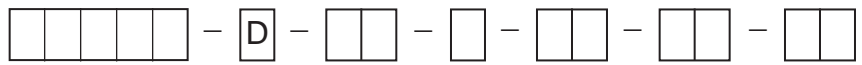
The REGD Constant Current Regulator is designed to provide precision control of runway lighting circuits. The equipment can be supplied with a wide range of control and monitoring options.

These regulators are air cooled and designed for indoor service.

Features

- ETL Certified 
- Air cooled
- Advanced Diagnostic Aids
- Shunt type ferro-resonant regulator
- Elapsed Time Indicator: each step and total
- Built-in digital ammeter (0.5% accuracy)
- Regulation $\pm 1\%$ 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 power factor
- Remote reset capability
- Output current maintained with 30% open isolation transformer secondaries
- Open circuit protection
- Over current protection
- Compatibility of Multiple Options
- Soft On/Off
- Integral L-829 Monitoring
- 10,000 feet remote control @ 120V
- Temperature -40°C to $+55^{\circ}\text{C}$
- Plug-in printed circuit boards
- Circuit board compatibility*** with small dry CCR (Refer to ET-6.9)

Ordering Information



FAA Specification:
828 = L-828
829 = L-829

Frequency:
50 = 50 Hz
60 = 60 Hz

D = Dry Type: Air Cooled

Kilowatt Rating:
11 = 10 kw 20 = 20 kw
15 = 15 kw 30 = 30 kw

Input Voltage:*
1 = 208 5 = 380 8 = 480
2 = 220 6 = 400 9 = 2400**
3 = 230 7 = 415
4 = 240

Output Current:
66 = 6.6A
20 = 20A (10 kw available in 6.6 Amps only)

Output Brightness Steps:
01 = Fixed: Full Brightness at 6.6A
03 = 3 Steps
05 = 5 Steps

Options: See catalog page ET-6.11 for a complete list of options.

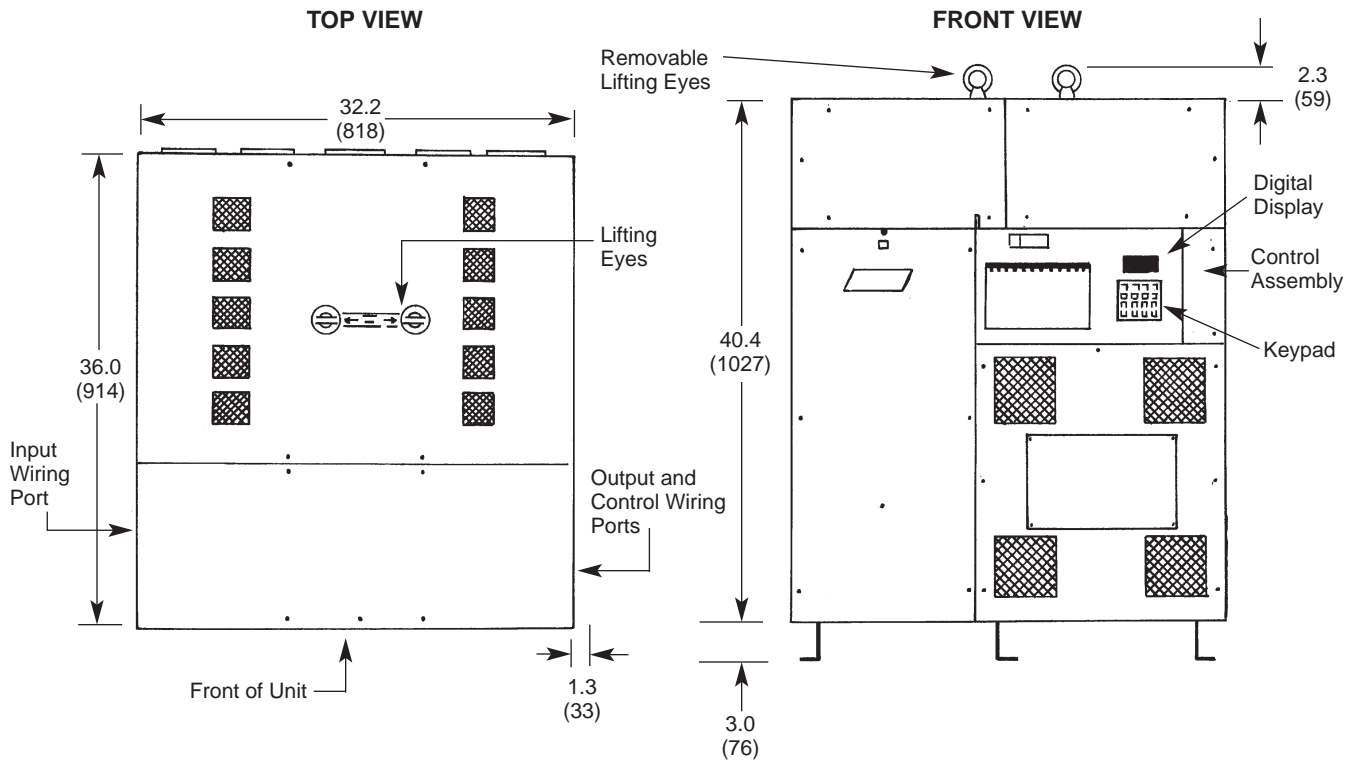
* Voltage Availability

50 Hz only: 230, 380, 400, 415 60 Hz only: 480, 2400 50 or 60 Hz: 208, 220, 240

** Wye system is standard with one-pole breaker. For Delta System see Option 94.

*** Field adjustments may be required.

Outline Drawing



Technical Data

Brightness Step	REGD Output Current (Amps)		Percentage (%) Light Output	
	3-Step	5-Step	3-Step	5-Step
5	—	6.6 20.0	—	100
4	—	5.2 15.8	—	20
3	6.6	4.1 12.4	100	4.0
2	5.5	3.4 10.3	30	0.8
1	4.8	2.8 8.5	10	0.2

Note: For 4, 7.5 and 10 kw series type REGD regulators, refer to catalog page ET-6.9.

Dimensions: Inches
(Millimeters)

Instruction Manual: 9540

	10 KW	15 KW	20 KW	30 KW
Shipping Weight:	800 lbs. 363 kg.	880 lbs. 399 kg.	1015 lbs. 460 kg.	1170 lbs. 531 kg.

Shipping Volume: 84 cu.ft.
2.37 cu.m.

Renewal Parts

Part Number	Description
32323-"X"-"Y"	L-828 Control Assembly
32323-"X"-"Y"-61	L-829 Control Assembly
Insert 1,3, or 5 in place of "X" for the number of brightness steps required.	
Insert 1 for 6, 6A or 2 for 20A in place of "Y" for the output current required.	
10047-1005	Fuse, 1/8 Amp, Slo-Blo
10047-1205	Fuse, 1 Amp, Slo-Blo
31505-1	SCR/Heatsink Assembly, 10-20KW
31505-2	SCR/Heatsink Assembly, 30KW
10047-1141	Fuse, 2 Amp, Slo-Blo

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