

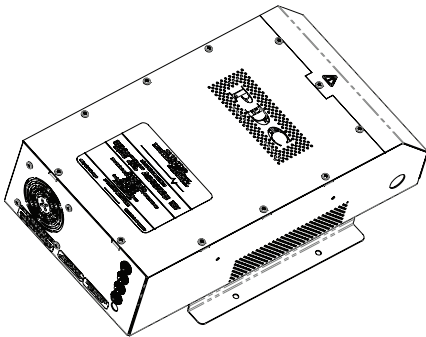
# DCLC Power Supplies

## 12V, 24V and 36V Series



### Product Description

The DC Lighting Controller (DCLC) is a modular multi-zone power supply system for LED lighting applications specifically designed to meet the unique requirements of an MRI scan room. A wide variety of power supply options allows the DCLC to fit any lighting application both from general workspace and directional lighting to custom cove lighting and Image Ceiling® applications. The DCLC provides quiet, reliable power to anywhere in the health care facility. Multi-zone dimming is supported through either standard 0-10V wall box dimmers or optionally through the mobile lighting application. Certified to meet MRI vendor EMI requirements. MRI applications require EMI free emissions for specific frequency bands. All outputs are linear DC and no pulse width modulation (PWM\*).



### PDC Specification Submittal

|                |               |
|----------------|---------------|
| Job Name:      |               |
|                |               |
| Job Number:    |               |
|                |               |
| Model Numbers: | Fixture Type: |
|                |               |
|                |               |
|                |               |

### 12V Series Electrical Data

| Part Number | Lighting Zones            | Directional Lights | Input Voltage (Vac) | Max Input Current (A @120V) | Max Input (W) | Frequency (Hz) | Max Output Current (A)                 | Max Output (W) | BTU/hr |
|-------------|---------------------------|--------------------|---------------------|-----------------------------|---------------|----------------|----------------------------------------|----------------|--------|
| 1-05-000006 | 1 Max                     | -                  | 120/240             | 4.1                         | 410           | 50/60          | 25 A x 1 Output                        | 328            | 1119   |
| 1-05-000007 | 2 Max                     | -                  | 120/240             | 7.0                         | 820           | 50/60          | 25 A x 2 Outputs                       | 656            | 2238   |
| 1-05-000008 | 3 Max                     | -                  | 120/240             | 7.0                         | 900           | 50/60          | 25 A x 3 Outputs                       | 720            | 2456   |
| 1-05-000025 | 1 Max (+ Directionals)    | 2 Fixtures         | 120/240             | 4.4                         | 450           | 50/60          | 25 A x 1 Output 0.9A for Directionals  | 360            | 1228   |
| 1-05-000026 | 2 Max (+ Directionals)    | 2 Fixtures         | 120/240             | 7.0                         | 860           | 50/60          | 25 A x 2 Outputs 0.9A for Directionals | 688            | 2347   |
| 1-05-000050 | 2 Max                     | -                  | 120/240             | 7.0                         | 900           | 50/60          | 25 A x 1 Output, 18 A x 1 Output       | 720            | 2456   |
| 1-05-000057 | 1 Max (+2 x Directionals) | 4 Fixtures         | 120/240             | 4.7                         | 490           | 50/60          | 25 A x 1 Output 0.9A for Directionals  | 392            | 1337   |

### 24V Series Electrical Data

| Part Number | Lighting Zones           | Directional Lights | Input Voltage (Vac) | Max Input Current (A @120V) | Max Input (W) | Frequency (Hz) | Max Output Current (A)                 | Max Output (W) | BTU/hr |
|-------------|--------------------------|--------------------|---------------------|-----------------------------|---------------|----------------|----------------------------------------|----------------|--------|
| 1-05-000009 | 1 Max                    | -                  | 120/240             | 4.1                         | 410           | 50/60          | 14 A x 1 Output                        | 328            | 1119   |
| 1-05-000010 | 2 Max                    | -                  | 120/240             | 7.0                         | 820           | 50/60          | 14 A x 2 Outputs                       | 656            | 2238   |
| 1-05-000011 | 3 Max                    | -                  | 120/240             | 7.0                         | 900           | 50/60          | 14 A x 3 Outputs                       | 720            | 2456   |
| 1-05-000027 | 1 Max (+ Directionals)   | 2 Fixtures         | 120/240             | 4.4                         | 450           | 50/60          | 14 A x 1 Output 0.9A for Directionals  | 360            | 1228   |
| 1-05-000028 | 2 Max (+ Directionals)   | 2 Fixtures         | 120/240             | 7.0                         | 860           | 50/60          | 14 A x 2 Outputs 0.9A for Directionals | 688            | 2347   |
| 1-05-000053 | 2 Max                    | -                  | 120/240             | 7.0                         | 900           | 50/60          | 14 A x 1 Output, 18 A x 1 Output       | 720            | 2456   |
| 1-05-000058 | 1 Max (+2x Directionals) | 4 Fixtures         | 120/240             | 4.7                         | 490           | 50/60          | 14 A x 1 Output 0.9A for Directionals  | 392            | 1337   |

### 36V Series Electrical Data

| Part Number | Lighting Zones           | Directional Lights | Input Voltage (Vac) | Max Input Current (A @120V) | Max Input (W) | Frequency (Hz) | Max Output Current (A)                | Max Output (W) | BTU/hr |
|-------------|--------------------------|--------------------|---------------------|-----------------------------|---------------|----------------|---------------------------------------|----------------|--------|
| 1-05-000012 | 1 Zone                   | -                  | 120/240             | 4.1                         | 410           | 50/60          | 9 A x 1 Output                        | 328            | 1119   |
| 1-05-000013 | 1 Zone                   | -                  | 120/240             | 7.0                         | 820           | 50/60          | 18 A x 1 Output                       | 656            | 2238   |
| 1-05-000014 | 2 Zones                  | -                  | 120/240             | 7.0                         | 820           | 50/60          | 9 A x 2 Outputs                       | 656            | 2238   |
| 1-05-000015 | 1 Zone                   | -                  | 120/240             | 7.0                         | 900           | 50/60          | 25 A x 1 Output                       | 720            | 2456   |
| 1-05-000017 | 2 or 3 Zones             | -                  | 120/240             | 7.0                         | 900           | 50/60          | 9 A x 3 Outputs                       | 720            | 2456   |
| 1-05-000029 | 1 Zone (+ Directionals)  | 2 Fixtures         | 120/240             | 4.4                         | 450           | 50/60          | 9 A x 1 Output 0.9A for Directionals  | 360            | 1228   |
| 1-05-000030 | 1 Zone (+ Directionals)  | 2 Fixtures         | 120/240             | 7.0                         | 860           | 50/60          | 18A x 1 Output 0.9A for Directionals  | 688            | 2347   |
| 1-05-000031 | 2 Zones (+ Directionals) | 2 Fixtures         | 120/240             | 7.0                         | 860           | 50/60          | 9 A x 2 Outputs 0.9A for Directionals | 688            | 2347   |
| 1-05-000059 | 1 Max (+2x Directionals) | 4 Fixtures         | 120/240             | 4.7                         | 490           | 50/60          | 9 A x 1 Output 0.9A for Directionals  | 392            | 1337   |
| 1-05-000060 | 1x Directionals          | 2 Fixtures         | 120/240             | 0.4                         | 40            | 50/60          | 0.9A for Directionals                 | 36             | 123    |
| 1-05-000061 | 2x Directionals          | 4 Fixtures         | 120/240             | 0.7                         | 80            | 50/60          | 0.9A for Directionals                 | 72             | 246    |
| 1-05-000062 | 3x Directionals          | 6 Fixtures         | 120/240             | 1                           | 120           | 50/60          | 0.9A for Directionals                 | 108            | 369    |

| Hybrid Series Electrical Data |             |                        |                    |                     |                             |               |                |                                                        |                |        |
|-------------------------------|-------------|------------------------|--------------------|---------------------|-----------------------------|---------------|----------------|--------------------------------------------------------|----------------|--------|
| Part Number                   | Vdc Out     | Lighting Zones         | Directional Lights | Input Voltage (Vac) | Max Input Current (A @120V) | Max Input (W) | Frequency (Hz) | Max Output Current (A)                                 | Max Output (W) | BTU/hr |
| 1-05-000045                   | 12V/12V/24V | 3 Max                  | -                  | 120/240             | 7.0                         | 900           | 50/60          | 25 A x 2 Output, 14 A x 1 Output                       | 720            | 2456   |
| 1-05-000046                   | 12V/12V/36V | 3 Max                  | -                  | 120/240             | 7.0                         | 900           | 50/60          | 25 A x 2 Output, 9 A x 1 Output                        | 720            | 2456   |
| 1-05-000047                   | 12V/24/24V  | 3 Max                  | -                  | 120/240             | 7.0                         | 900           | 50/60          | 25 A x 2 Output, 14 A x 2 Output                       | 720            | 2456   |
| 1-05-000042                   | 12V/24V     | 2 Max                  | -                  | 120/240             | 7.0                         | 820           | 50/60          | 25 A x 1 Output, 14 A x 1 Output                       | 656            | 2238   |
| 1-05-000054                   | 12V/24V     | 2 Max (+ Directionals) | 2 Fixtures         | 120/240             | 7.0                         | 860           | 50/60          | 25 A x 1 Output, 14 A x 1 Output 0.9A for Directionals | 688            | 2347   |
| 1-05-000048                   | 12V/24V/36V | 3 Max                  | -                  | 120/240             | 7.0                         | 900           | 50/60          | 25 A x 1 Output, 14 A x 1 Output, 9 A x 1 Output       | 720            | 2456   |
| 1-05-000043                   | 12V/36V     | 2 Max                  | -                  | 120/240             | 7.0                         | 820           | 50/60          | 25 A x 1 Output, 9 A x 1 Output                        | 656            | 2238   |
| 1-05-000055                   | 12V/36V     | 2 Max (+ Directionals) | 2 Fixtures         | 120/240             | 7.0                         | 860           | 50/60          | 25 A x 1 Output, 9 A x 1 Output 0.9A for Directionals  | 688            | 2347   |
| 1-05-000051                   | 24V/24V/36V | 3 Max                  | -                  | 120/240             | 7.0                         | 900           | 50/60          | 14 A x 2 Output, 9 A x 1 Output                        | 720            | 2456   |
| 1-05-000044                   | 24V/36V     | 2 Max                  | -                  | 120/240             | 7.0                         | 820           | 50/60          | 14 A x 1 Output, 9 A x 1 Output                        | 656            | 2238   |
| 1-05-000056                   | 24V/36V     | 2 Max (+ Directionals) | 2 Fixtures         | 120/240             | 7.0                         | 860           | 50/60          | 14 A x 1 Output, 9 A x 1 Output 0.9A for Directionals  | 688            | 2347   |
| 1-05-000052                   | 24V/36V/36V | 3 Max                  | -                  | 120/240             | 7.0                         | 900           | 50/60          | 14 A x 1 Output, 9 A x 2 Output                        | 720            | 2456   |

| Mechanical         |                     |     |           |        |
|--------------------|---------------------|-----|-----------|--------|
| Overall Dimensions | 10.875 W            | 5 D | 17.5 L    | Inches |
| Enclosure          | Powder Coated Steel |     |           | -      |
| Product Weight     | -                   | -   | Max. 17.1 | lbs    |

| Dimming Inputs |         |         |         |                    |
|----------------|---------|---------|---------|--------------------|
|                | Minimum | Typical | Maximum | Units              |
| Dim Voltage    | 1       | -       | 8       | Vdc                |
| Dim Value      | 1       | -       | 100     | % of Rated Current |
| Dim Source     | -       | -       | 150     | µA                 |

| Compliance        |         |         |         |                            |
|-------------------|---------|---------|---------|----------------------------|
|                   | Minimum | Typical | Maximum | Units                      |
| Regulatory Safety | -       | Listed  | -       | UL 2108<br>CSA C22.2#250.2 |
| CE                | -       | Pending | -       | -                          |
| RoHS              | -       | Pending | -       | 2011/65/EU<br>2015/863     |

| Environmental         |         |         |         |       |
|-----------------------|---------|---------|---------|-------|
|                       | Minimum | Typical | Maximum | Units |
| Operating Temperature | 0       | -       | 25      | C     |
| Humidity              | 20      | -       | 80      | %     |
| Warranty              | 3       | -       | -       | Years |

| Installation Notes                                                      |  |
|-------------------------------------------------------------------------|--|
| A RF Filter is required for proper operation in the MRI suite           |  |
| *PWM is known to cause image artifacts, audible noise and light flicker |  |



Mechanical Diagram

