

DCLC Power Supply

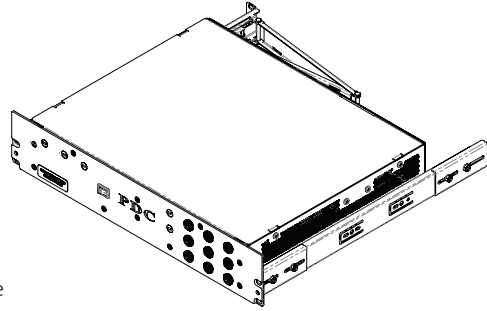
Rack Mounted 12V, 24V and 36V Series

for MRI Applications



Product Description

The DCLC Power Supply is a compact 2 rack unit (2U) 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)	Output Voltage (VDC)	Max Output (W)	BTU/hr
1-05-000101	1 Max	-	120/240	4.1	410	50/60	25A x 1 Output	12	324	293
1-05-000102	2 Max	-	120/240	8.2	820	50/60	25A x 2 Outputs	12	648	587
1-05-000103	3 Max	-	120/240	9.1	1091	50/60	25A x 3 Outputs	12	720	1266
1-05-000104	1 Max (+ Directionals)	2	120/240	4.5	452	50/60	25A x 1 Output, 0.9A for Directionals	12/36	360	314
1-05-000105	2 Max (+ Directionals)	2	120/240	8.6	862	50/60	25A x 2 Outputs, 0.9A for Directionals	12/36	684	607
1-05-000134	1 Max (+ 2x Directionals)	4	120/240	4.8	494	50/60	25A x 1 Output, 0.9A for Directionals	12/36	396	334

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)	Output Voltage (VDC)	Max Output (W)	BTU/hr
1-05-000106	1 Max	-	120/240	4.1	410	50/60	14A x 1 Output	24	336	252
1-05-000107	2 Max	-	120/240	8.2	820	50/60	14A x 2 Outputs	24	672	505
1-05-000108	3 Max	-	120/240	12.3	1230	50/60	14A x 3 Outputs	24	1008	757
1-05-000109	1 Max (+ Directionals)	2	120/240	4.5	452	50/60	14A x 1 Output, 0.9A for Directionals	24/36	372	273
1-05-000110	2 Max (+ Directionals)	2	120/240	8.6	862	50/60	14A x 2 Outputs, 0.9A for Directionals	24/36	708	525
1-05-000135	1 Max (+ 2x Directionals)	4	120/240	4.8	494	50/60	14A x 1 Output, 0.9A for Directionals	24/36	408	293

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)	Output Voltage (VDC)	Max Output (W)	BTU/hr
1-05-000111	1 Zone	-	120/240	4.1	410	50/60	9 A x 1 Output	36	324	293
1-05-000113	2 Zones	-	120/240	8.2	820	50/60	9 A x 2 Outputs	36	648	587
1-05-000114	1 Zone	-	120/240	12.3	1230	50/60	25 A x 1 Output	36	972	880
1-05-000115	2 or 3 Zones	-	120/240	12.3	1230	50/60	9 A x 3 Outputs	36	972	880
1-05-000116	1 Zone (+ Directionals)	2 Fixtures	120/240	4.4	450	50/60	9 A x 1 Output 0.9A for Directionals	36	360	314
1-05-000118	2 Zones (+ Directionals)	2 Fixtures	120/240	8.6	862	50/60	9 A x 2 Outputs 0.9A for Directionals	36	684	607
1-05-000136	1 Max (+2 Directionals)	4 Fixtures	120/240	4.8	494	50/60	9 A x 1 Output 0.9A for Directionals	36	396	334

Hybrid 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)	Output Voltage (VDC)	Max Output (W)	BTU/hr
1-05-000119	2 Max	-	120/240	8.2	820	50/60	25A x 1 (12V) Output, 14A x 1 (24V) Output,	12/24	660	546
1-05-000120	2 Max	-	120/240	8.2	820	50/60	25A x 1 (12V) Output, 9A x 1 (36V) Output,	12/36	648	587
1-05-000121	2 Max	-	120/240	4.5	820	50/60	14A x 1 (24V) Output, 9A x 1 (36V) Output,	24/36	660	546
1-05-000131	2 Max (+ Directionals)	2	120/240	8.6	862	50/60	25A x 1 (12V) Output, 14A x 1 (24V) Output, 0.9A for Directionals	12/24/36	696	566
1-05-000132	2 Max (+ Directionals)	2	120/240	8.6	862	50/60	25A x 1 (12V) Output, 9A x 1 (36V) Output, 0.9A for Directionals	12/36	684	607
1-05-000133	2 Max (+ Directionals)	2	120/240	8.6	862	50/60	14A x 1 (12V) Output, 9A x 1 (36V) Output, 0.9A for Directionals	24/36	696	566
1-05-000122	2 @ 12V (Or RGB), 1 @ 24V	-	120/240	12.3	1230	50/60	25A x 2 (12V) Output, 14A x 1 (24V) Output,	12/24	984	839
1-05-000123	2 @ 12V (Or RGB), 1 @ 36V	-	120/240	12.3	1230	50/60	25A x 2 (12V) Output, 9A x 1 (36V) Output,	12/36	972	880
1-05-000124	1 @ 12V (Or RGB), 2 @ 24V	-	120/240	12.3	1230	50/60	25A x 1 (12V) Output, 14A x 2 (24V) Output,	12/24	996	798
1-05-000125	1 @ 12V (Or RGB), 1 @ 24V, 1 @ 36V	-	120/240	12.3	1230	50/60	25A x 1 (12V) Output, 14A x 1 (24V) Output, 9A x 1 (36V) Output	12/24/36	984	839
1-05-000126	1 @ 12V (Or RGB), 2 @ 36V	-	120/240	12.3	1230	50/60	25A x 1 (12V) Output, 9A x 2 (36V) Output,	12/36	972	880
1-05-000128	2 @ 24V, 1 @ 36V	-	120/240	12.3	1230	50/60	14A x 2 (24V) Output, 9A x 1 (36V) Output,	24/36	996	798
1-05-000129	1 @ 24V, 2 @ 36V	-	120/240	12.3	1230	50/60	14A x 1 (24V) Output, 9A x 2 (36V) Output,	24/36	984	839

Mechanical				
	Minimum	Typical	Maximum	Units
Overall Dimensions	-	19.0 x 17.9 x 3.5	-	in.
Enclosure	Powder Coated Steel			-
Product Weight	-	-	17	lbs

Compliance				
	Minimum	Typical	Maximum	Units
Regulatory Safety	-	Listed	-	UL 2108 CSA C22.2#250.0
CE	-	Pending	-	-
RoHS	-	Pending	-	2011/65/EU

Environmental				
	Minimum	Typical	Maximum	Units
Operating Temperature	0	25	40	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

