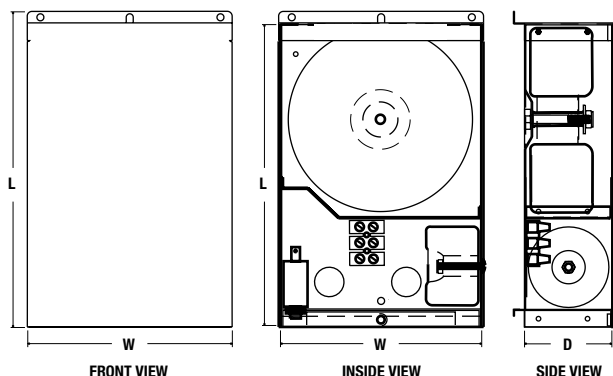




TRANSFORMERS
800 Series

Job No: _____ Type: _____
 Cat. No. _____
 Notes: _____



Transformer	L	W	D	Weight
50w	8.63"	5.75"	3.1"	7 lbs
100w	8.63"	5.75"	3.1"	8 lbs
150w	8.63"	5.75"	3.1"	9 lbs
300w	8.63"	5.75"	3.1"	11 lbs
600w	11.0"	7.0"	4.5"	19 lbs
900w	15.0"	10.0"	5.25"	35 lbs
1200w	15.0"	10.0"	5.25"	40 lbs
1500w	15.0"	10.0"	5.25"	45 lbs
1800w	15.0"	10.0"	5.25"	55 lbs

LISTED **US 5F78**
**LOW VOLTAGE LUMINAIRE
 POWER SUPPLY CENTER**

- SURFACE MOUNT ANY POSITION
- SUITABLE FOR DAMP LOCATIONS
- FOR SUPPLY CONNECTIONS USE WIRE RATED FOR AT LEAST 90°C
- SUITABLE FOR INDOOR USE ONLY
- COMPLIES WITH N.E.C. ARTICLE 411
- COMPLIES WITH UL STANDARD 2108
- ISOLATION TOROIDAL TRANSFORMER
- USE DIMMERS RATED FOR MAGNETIC LOW VOLTAGE LOAD
- 50/60 CYCLE A.C. ONLY
- MADE IN THE U.S.A.

FEATURES

HOUSING & MOUNTING 18 gauge welded steel measuring (See above dimensions) with 5, 7, and 18 knockouts. Built-in mounting bracket is designed for easy installation for both 6 planes of surface mounting and suspension by two 1/4" threaded rods. Standard finish is white powder coat.

TOROIDAL TRANSFORMER - DUAL TAP (DT)
 The 800 Series Power Supply Center utilizes two primary taps (12V, 12.5V or 24V, 25V). Loads may be connected to one of the primary taps up to the full watt rating of the Power Supply Center. The advantage is that the PSC can be tapped to recover voltage drop and produce between 85%-100% light output. See Voltage Drop Calculator.

Available in 120 and 277 volt primary.
 Consult factory for 230V and 50Hz.

SECONDARY CIRCUIT Protected by up to 9 magnetic circuit breakers. Appropriate size to the feed load per N.E.C. Article 411 (not to exceed 25 amps per load). All wiring by a certified electrical contractor must be Class compliant to N.E.C. Chapter 3. Available in 5A, 10A, 12.5A, 15A, 20A, and 25A. Must specify Quantity and Amperage.

TOROIDAL CHOKE A Choke or "Debuzzing Coil" comes standard on every 800 Series unit to reduce noise and in-rush current.
 NOTE: Not required for 50W & 100W transformers.

ORDERING INFORMATION

EXAMPLE: 800-1500-120-24-2X05-2X10-2X15-2X20

800

series	size	primary voltage	secondary voltage	circuit breakers
800 Series	0050 50w, maximum number of secondary circuit breakers: 3	120 120 volt 277 277 volt	12 12 volt 24 24 volt	QTY X05 05 amps QTY X10 10 amps QTY X15 15 amps QTY X20 20 amps QTY X25 25 amps
	0100 100w, maximum number of secondary circuit breakers: 3			
	0150 150w, maximum number of secondary circuit breakers: 3			
	0300 300w, maximum number of secondary circuit breakers: 3			
	0600 600w, maximum number of secondary circuit breakers: 5			
	0900 900w, maximum number of secondary circuit breakers: 9			
	1200 1200w, maximum number of secondary circuit breakers: 9			
	1500 1500w, maximum number of secondary circuit breakers: 9			
	1800 1800w, maximum number of secondary circuit breakers: 9			

We reserve the right to change details of design, materials, and finish.



TRANSFORMERS

800 Series

TECHNICAL DATA

The 800 Series Power Supply Centers' economical toroidal transformers incorporate a multi-volt feature ensuring proper voltage to the lamp, even on a dimmed circuit. The multi-volt feature also permits the Power Supply Center to be mounted farther away from the fixtures without sacrificing light output.

The charts below quickly identify the voltage supplied from each tap at various distances and secondary wire sizes. Instructions for using voltage drop charts:

- Select the correct secondary voltage chart for either 24 volt or 12 volt lighting.
- Locate on the correct chart the estimated distance the Power Supply Center will be mounted away from the low voltage fixture by reading across the top of each column.
- Select whether the low voltage circuit will be a switched "S" or a dimmed "D" circuit.
- Reading down the distance column, find the highest voltage output for maximum lamp performance.

Note: Voltage should not exceed 24 or 12 volt.

- From that spot, scan over to the left. The second column labeled "TAP" will indicate the correct primary tap to be used and the third column labeled "AWG" will indicate the wire size required.

EXAMPLE

For a dimmed, 24 volt, low voltage lighting circuit where the Power Supply Center needs to be mounted 20' away it would require you to use the #2 tap on the transformer and #8 AWG wire on the secondary which would provide 23.9 volts at the fixture.

- Highlighted voltages indicate the acceptable range of secondary voltages ending at a maximum 6% voltage drop maintaining at least an 82% light output from the lamp.

800 Series 24V VOLTAGE DROP CHART

S or D	TAP	AWG.	VOLTS	VOLTS	VOLTS	VOLTS	VOLTS	VOLTS	VOLTS	VOLTS	VOLTS	VOLTS	VOLTS	VOLTS
			@5'	@10'	@15'	@20'	@25'	@30'	@35'	@40'	@45'	@50'	@55'	@60'
S	#1	#10	24.2	24.0	23.7	23.5	23.2	22.9	22.7	22.4	22.2	21.9	21.6	21.4
S	#1	#8	24.3	24.2	24.0	23.9	23.7	23.6	23.4	23.2	23.1	22.9	22.8	22.6
S	#2	#10	25.3	25.1	24.8	24.6	24.3	24.0	23.8	23.5	23.3	23.0	22.7	22.5
S	#2	#8	25.4	25.3	25.1	25.0	24.8	24.7	24.5	24.3	24.2	24.0	23.9	23.7
D	#2	#10	24.2	24.0	23.7	23.5	23.2	22.9	22.7	22.4	22.2	21.9	21.6	21.4
D	#2	#8	24.3	24.2	24.0	23.9	23.7	23.6	23.4	23.2	23.1	22.9	22.8	22.6

800 Series 12V VOLTAGE DROP CHART

S or D	TAP	AWG.	VOLTS	VOLTS	VOLTS	VOLTS	VOLTS	VOLTS	VOLTS	VOLTS	VOLTS	VOLTS	VOLTS	VOLTS
			@5'	@10'	@15'	@20'	@25'	@30'	@35'	@40'	@45'	@50'	@55'	@60'
S	#1	#10	12.0	11.7	11.5	11.2	11.0	10.7	10.4	10.2	9.9	9.7	9.4	9.1
S	#1	#8	12.1	11.9	11.8	11.6	11.5	11.3	11.2	11.0	10.8	10.7	10.5	10.4
S	#2	#10	12.5	12.3	12.0	11.7	11.5	11.2	11.0	10.7	10.4	10.2	9.9	9.7
S	#2	#8	12.6	12.5	12.3	12.2	12.0	11.8	11.7	11.5	11.4	11.2	11.1	10.9
D	#2	#10	12.0	11.7	11.5	11.2	11.0	10.7	10.4	10.2	9.9	9.7	9.4	9.1
D	#2	#8	12.1	11.9	11.8	11.6	11.5	11.3	11.2	11.0	10.8	10.7	10.5	10.4

WARNING

Supplying greater than 24 volt or 12 volt to the low voltage lighting fixture will increase heat and greatly reduce lamp life.

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