



## HID BALLASTS

High Pressure Sodium



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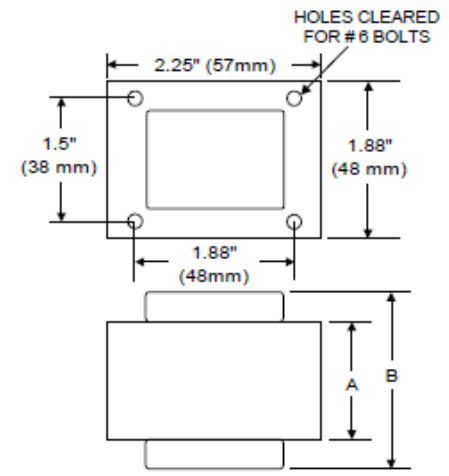


**BALLAST SPECIFICATIONS**

**35W S76**  
**High Pressure Sodium**  
**S35S-12**  
**60 Hz Reactor-NPF**

Input Volts	120			
Line Current ( Amps )				
Operating	0.85			
Open Circuit				
Starting	0.75			
Recommended Fuse (Amps)	3			
Regulation				
Line Volts	±5%			
Lamp Watts	±12%			
Temperature Ratings				
Insulation Class	180 (H)			
Coil Temperature Code	A			
Benchtop Coil Rise				
Power Factor (Min)	40%			
Input Watts	45 W			
Efficiency				
NOM. Open Circuit Voltage	120			
Input Voltage At Lamp Dropout				
Min Ambient Starting Temp	-40°F / -40°C			
60 Hz TEST PROCEDURES				
High Potential Test (Volts)				
1 Minute	2,000 V			
1 Second	2,500 V			
Open Circuit Voltage Test (V)	110 – 35			
Short Circuit Current Test (A)				
Min	.00			
Secondary Current				
Max	.00			
Min				
Input Current				
Max				
CORE and COIL Specifications				
Dimension (A)	.90 in			
Dimension (B)	2.15 in			
Weight	2.0 lbs			
Lead Lengths	12"			
Capacitor Requirement				
Microfarads				
Volts (Min)				

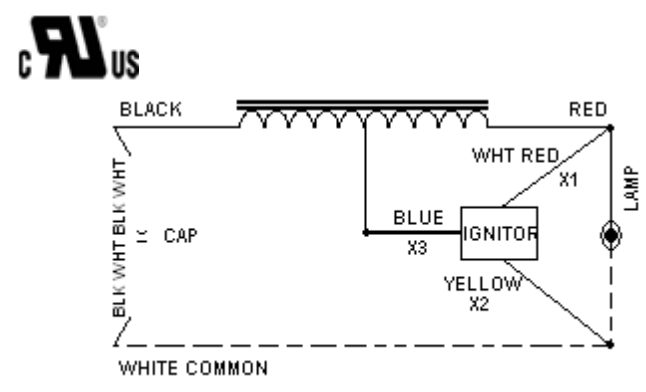
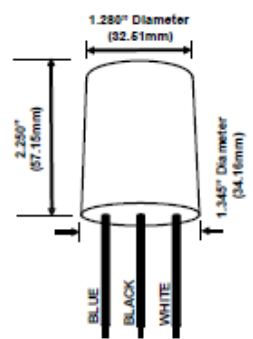
0.75EI CORE.wmf



Capacitor: NONE      Ignitor: S55V

Volts (Max): V      Case Temp (Max): 105 °C  
 BTL Distance (Max): 12 ft

This Ballast Does Not Require A Capacitor

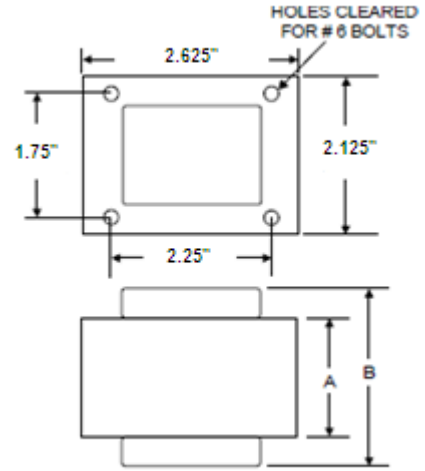


**BALLAST SPECIFICATIONS**

**50 W S68**  
**High Pressure Sodium**  
**S50S-12**  
**60 Hz Reactor-NPF**

Input Volts	120			
Line Current ( Amps )				
Operating	1.20			
Open Circuit				
Starting	1.10			
Recommended Fuse (Amps)	2			
Regulation				
Line Volts	±5%			
Lamp Watts	±12%			
Temperature Ratings				
Insulation Class	180 (H)			
Coil Temperature Code	A			
Benchtop Coil Rise				
Power Factor (Min)	40%			
Input Watts	65W			
Efficiency				
NOM. Open Circuit Voltage	120			
Input Voltage At Lamp Dropout	95			
Min Ambient Starting Temp	-40°F / -40°C			
60 Hz TEST PROCEDURES				
High Potential Test (Volts)				
1 Minute	2,000 V			
1 Second	2,500 V			
Open Circuit Voltage Test (V)	110 – 135			
Short Circuit Current Test (A)				
Min	1.35			
Secondary Current				
Max	1.65			
Min	0.55			
Input Current				
Max	0.95			
CORE and COIL Specifications				
Dimension (A)	1.15 in			
Dimension (B)	2.35 in			
Weight	2.0 lbs			
Lead Lengths	12"			
Capacitor Requirement				
Microfarads				
Volts (Min)				

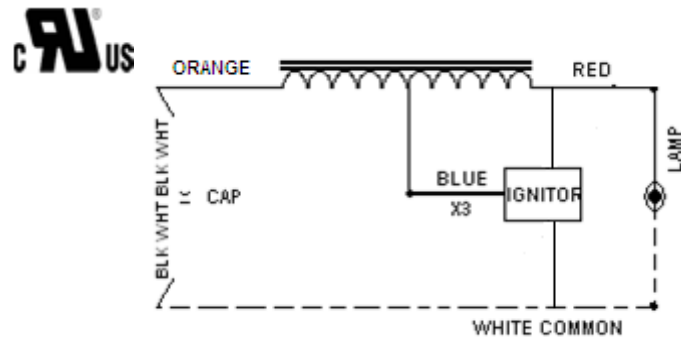
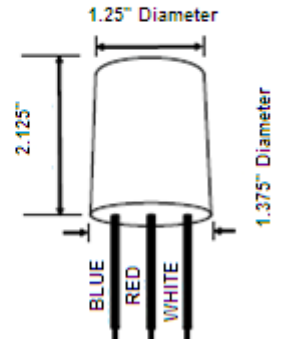
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Capacitor: NONE      Ignitor: S55V

Case Temp (Max): 105 °C  
 BTL Distance (Max) 12 ft

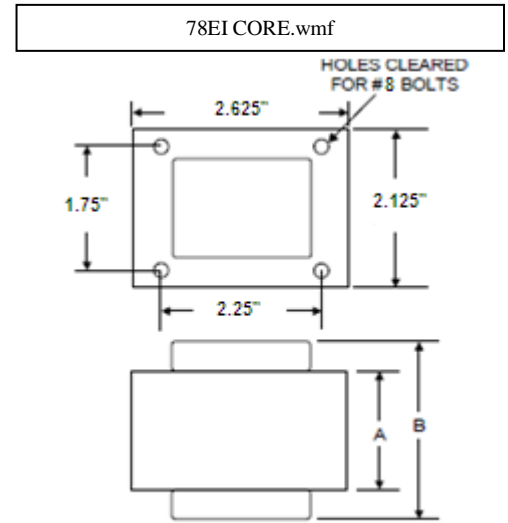
This Ballast Does Not Require A Capacitor



**BALLAST SPECIFICATIONS**

**70W S62  
High Pressure Sodium  
S70S-12  
60 Hz Reactor-NPF**

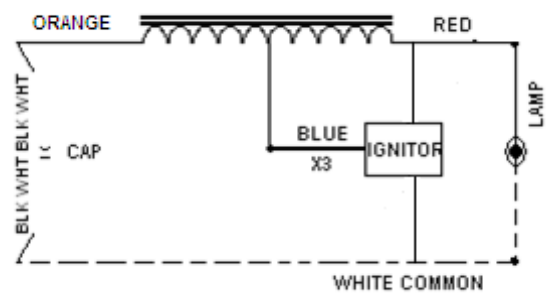
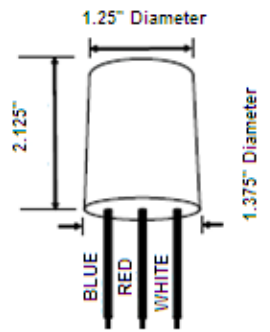
Input Volts	120			
Line Current ( Amps )				
Operating	1.70			
Open Circuit				
Starting	1.25			
Recommended Fuse (Amps)	5			
Regulation				
Line Volts	±5%			
Lamp Watts	±9%			
Temperature Ratings				
Insulation Class	180 (H)			
Coil Temperature Code	B			
Benchtop Coil Rise				
Power Factor (Min)	40%			
Input Watts	85 W			
Efficiency				
NOM. Open Circuit Voltage	120			
Input Voltage At Lamp Dropout				
Min Ambient Starting Temp	-40°F / -40°C			
60 Hz TEST PROCEDURES				
High Potential Test (Volts)				
1 Minute	2,000 V			
1 Second	2,500 V			
Open Circuit Voltage Test (V)	110 – 135			
Short Circuit Current Test (A)				
Min	.00			
Secondary Current				
Max	.00			
Min				
Input Current				
Max				
CORE and COIL Specifications				
Dimension (A)	1.29 in			
Dimension (B)	2.55 in			
Weight	3.0 lbs			
Lead Lengths	12"			
Capacitor Requirement				
Microfarads				
Volts (Min)				



Capacitor: NONE      Ignitor: S55V

Case Temp (Max): 105 °C  
BTL Distance (Max) 12 ft

**This Ballast  
Does Not  
Require  
A Capacitor**

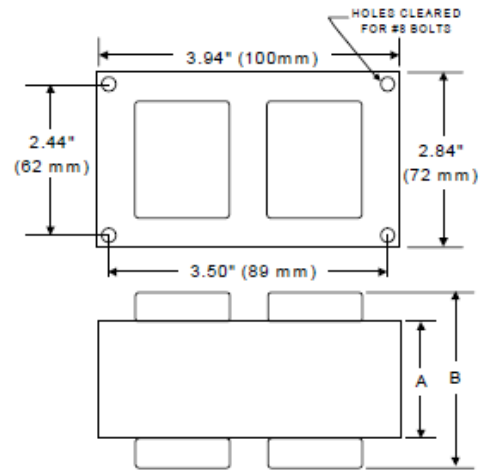


**BALLAST SPECIFICATIONS**

**70W S62  
High Pressure Sodium  
S70S-4  
60 Hz Reactor-NPF**

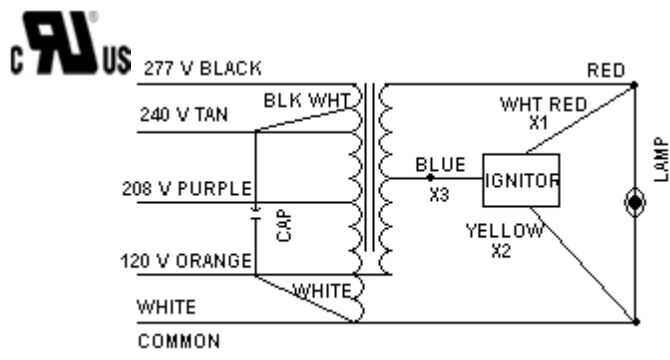
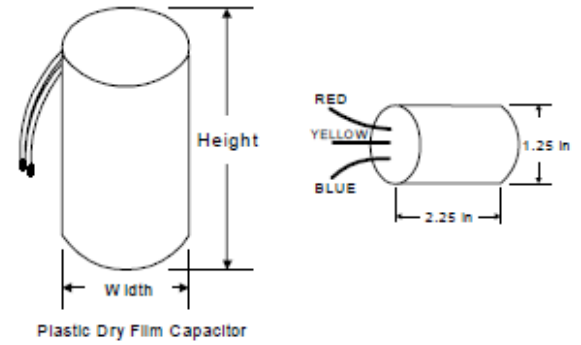
Input Volts	120	208	240	277
Line Current ( Amps )				
Operating	0.80	0.45	0.40	0.35
Open Circuit	1.50	0.85	0.75	0.65
Starting	0.60	0.35	0.30	0.25
Regulation				
Line Volts	±5%	±5%	±5%	±5%
Lamp Watts	±10%	±10%	±10%	±10%
UL Temperature Ratings				
Insulation Class	H	H	H	H
Coil Temperature Code	A	A	A	A
Benchtop Coil Rise	51.2	49.0	51.0	48.3
Input Watts	90 W	90 W	90 W	90 W
NOM. Open Circuit Voltage	120	120	120	120
Power Factor	90%	90%	90%	90%
Current Crest Factor	1.50	1.50	1.50	1.50
Input Voltage At Lamp Dropout	90	160	180	205
MIN. Ambient Starting Temp.	-40°F / -40°C	-40°F / -40°C	-40°F / -40°C	-40°F / -40°C
60 Hz TEST PROCEDURES				
High Potential Test (Volts)				
1 Minute	2,000 V	2,000 V	2,000 V	2,000 V
1 Second	2,500 V	2,500 V	2,500 V	2,500 V
Open Circuit Voltage Test (V)	105 – 135	105 – 135	105 – 135	105 – 135
Short Circuit Current Test (A)				
Min	1.80	1.80	1.80	1.80
Secondary Current				
Max	2.20	2.20	2.20	2.20
Min	0.40	0.25	0.20	0.15
Input Current				
Max	0.70	0.40	0.35	0.30
Recommended Fuse (Amps)	4	3	2	2
CORE and COIL Specifications				
Dimension (A)	1.50 in	1.50 in	1.50 in	1.50 in
Dimension (B)	2.95 in	2.95 in	2.95 in	2.95 in
Weight	4.6 lbs	4.6 lbs	4.6 lbs	4.6 lbs
Lead Lengths	12"	12"	12"	12"
Capacitor Requirement				
Microfarads	7.0 uf	7.0 uf	7.0 uf	7.0 uf
Volts (Min)	280 V	280 V	280 V	280 V

3X4 CORE – HX, CWA & CWI UNITS



Capacitor: CA300DL      Ignitor: S55V

Temp Rating: 100 °C      Temp: 105 °C  
Height: 2.72 in      BTL: 5 ft  
Dia/Oval Dim 1.38 in



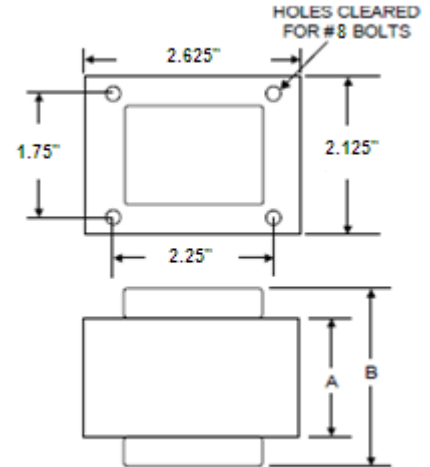


**BALLAST SPECIFICATIONS**

**100W S54  
High Pressure Sodium  
S100S-12  
60 Hz Reactor-NPF**

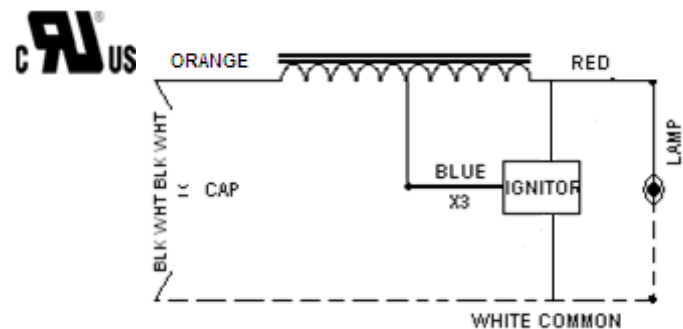
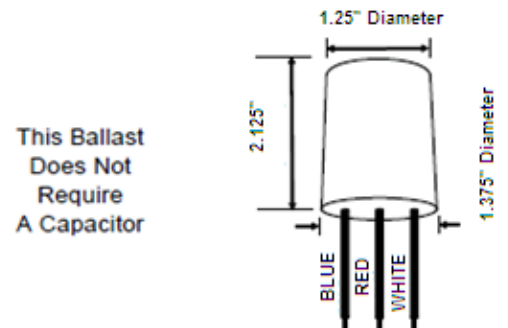
Input Volts	120			
Line Current ( Amps )				
Operating	2.15			
Open Circuit				
Starting	1.80			
Recommended Fuse (Amps)	6			
Regulation				
Line Volts	±5%			
Lamp Watts	±8%			
Temperature Ratings				
Insulation Class	180 (H)			
Coil Temperature Code	E			
Benchtop Coil Rise				
Power Factor (Min)	40%			
Input Watts	118 W			
Efficiency				
NOM. Open Circuit Voltage	120			
Input Voltage At Lamp Dropout				
Min Ambient Starting Temp	-40°F/ -40°C			
60 Hz TEST PROCEDURES				
High Potential Test (Volts)				
1 Minute	2,000 V			
1 Second	2,500 V			
Open Circuit Voltage Test (V)	110 – 135			
Short Circuit Current Test (A)				
Min	.00			
Secondary Current				
Max	.00			
Min				
Input Current				
Max				
CORE and COIL Specifications				
Dimension (A)	1.48 in			
Dimension (B)	2.75 in			
Weight	3.0 lbs			
Lead Lengths	12"			
Capacitor Requirement				
Microfarads				
Volts (Min)				

78EI CORE.wmf



Capacitor: NONE      Ignitor: S55V

Case Temp (Max): 105 °C  
BTL Distance (Max) 12 ft



## BALLAST SPECIFICATIONS

# 100W S54

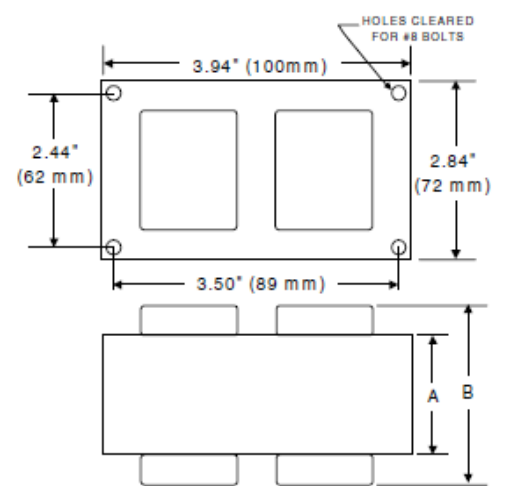
## High Pressure Sodium

### S100S-4

### 60 Hz HX-HPF

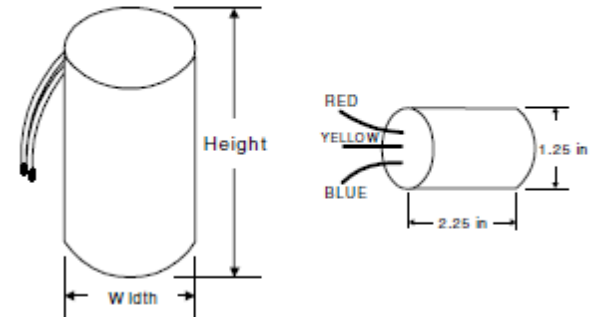
Input Volts	120	208	240	277
Line Current ( Amps )				
Operating	1.10	0.60	0.55	0.45
Open Circuit	2.10	1.20	1.05	0.90
Starting	0.90	0.55	0.45	0.40
Regulation				
Line Volts	±5%	±5%	±5%	±5%
Lamp Watts	±10%	±10%	±10%	±10%
UL Temperature Ratings				
Insulation Class	H	H	H	H
Coil Temperature Code	A	A	A	A
Benchtop Coil Rise				
Input Watts	126 W	126 W	126 W	126 W
NOM. Open Circuit Voltage	130	130	130	130
Power Factor	90%	90%	90%	90%
Current Crest Factor	1.50	1.50	1.50	1.50
Input Voltage At Lamp Dropout	90	160	180	210
MIN. Ambient Starting Temp.	-20°F/ -30°C	-20°F/ -30°C	-20°F/ -30°C	-20°F/ -30°C
60 Hz TEST PROCEDURES				
High Potential Test (Volts)				
1 Minute	2,000 V	2,000 V	2,000 V	2,000 V
1 Second	2,500 V	2,500 V	2,500 V	2,500 V
Open Circuit Voltage Test (V)	115 – 145	115 – 145	115 – 145	115 – 145
Short Circuit Current Test (A)				
Min	2.50	2.50	2.50	2.50
Secondary Current				
Max	2.80	2.80	2.80	2.80
Min	0.70	0.40	0.35	0.30
Input Current				
Max	1.00	0.60	0.50	0.45
Recommended Fuse (Amps)	6	3	3	3
CORE and COIL Specifications				
Dimension (A)	2.00 in	2.00 in	2.00 in	2.00 in
Dimension (B)	3.45 in	3.45 in	3.45 in	3.45 in
Weight	5.9 lbs	5.9 lbs	5.9 lbs	5.9 lbs
Lead Lengths	12"	12"	12"	12"
Capacitor Requirement				
Microfarads	10.0 uf	10.0 uf	10.0 uf	10.0 uf
Volts (Min)	280 V	280 V	280 V	280 V

3X4 CORE – HX, CWA & CWI UNITS

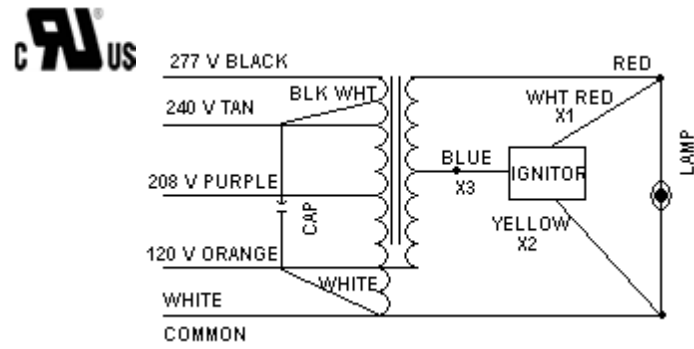


Capacitor: CA10280DL	Ignitor: S55V
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Temp Rating: 100 °C	Temp: 105 °C
Height: 2.72 in	BTL: 5 ft
Dia/Oval Dim 1.48 in	



Plastic Dry Film Capacitor





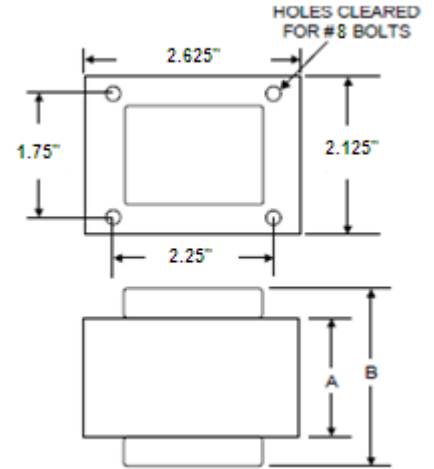


**BALLAST SPECIFICATIONS**

**150W S55  
High Pressure Sodium  
S150S-12  
60 Hz Reactor-HPF**

Input Volts	120			
Line Current ( Amps )				
Operating	1.50			
Open Circuit	2.45			
Starting	2.00			
Recommended Fuse (Amps)	4			
Regulation				
Line Volts	±5%			
Lamp Watts	±10%			
Temperature Ratings				
Insulation Class	180 (H)			
Coil Temperature Code	E			
Benchtop Coil Rise				
Power Factor (Min)	90%			
Input Watts	166W			
Efficiency				
NOM. Open Circuit Voltage	120			
Input Voltage At Lamp Dropout	95			
Min Ambient Starting Temp	-40°F/ -40°C			
60 Hz TEST PROCEDURES				
High Potential Test (Volts)				
1 Minute	2,000 V			
1 Second	2,500 V			
Open Circuit Voltage Test (V)	110 – 135			
Short Circuit Current Test (A)				
Min	3.80			
Secondary Current				
Max	4.70			
Min	1.50			
Input Current				
Max	2.50			
CORE and COIL Specifications				
Dimension (A)	2.00 in			
Dimension (B)	3.05 in			
Weight	4.0 lbs			
Lead Lengths	12"			
Capacitor Requirement				
Microfarads	52.0 uf			
Volts (Min)	120 V			

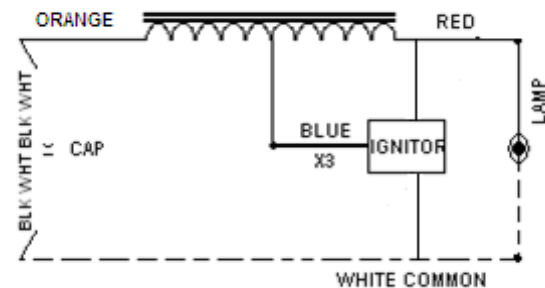
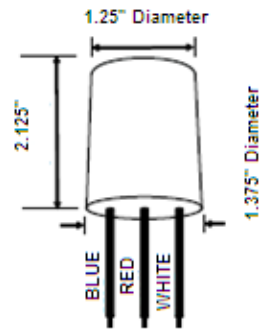
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Capacitor: NONE      Ignitor: S55V

Case Temp (Max): 105 °C  
BTL Distance (Max) 12 ft

This Ballast Does Not Require A Capacitor



## BALLAST SPECIFICATIONS

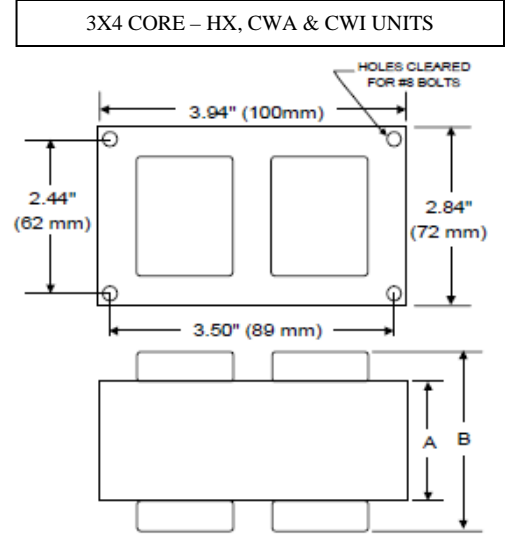
# 150W S55

## High Pressure Sodium

### S150S-4

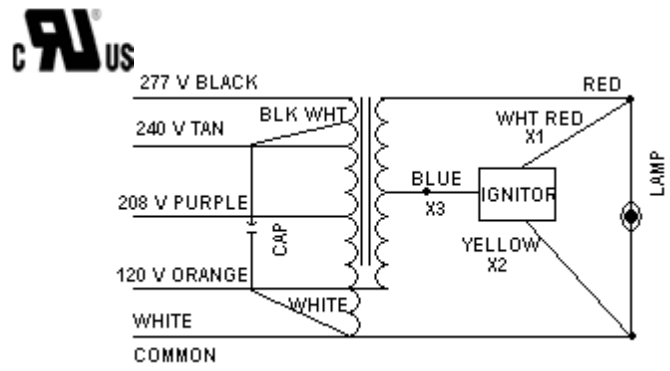
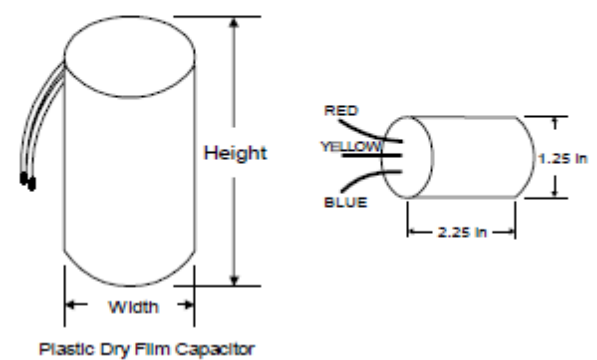
#### 60 Hz HX-HPF

Input Volts	120	208	240	277
Line Current ( Amps )				
Operating	1.60	0.85	0.80	0.70
Open Circuit	2.80	1.60	1.40	1.25
Starting	1.60	0.85	0.80	0.70
Regulation				
Line Volts	±5%	±5%	±5%	±5%
Lamp Watts	±10%	±10%	±10%	±10%
UL Temperature Ratings				
Insulation Class	H	H	H	H
Coil Temperature Code	D	B	C	C
Benchtop Coil Rise	86.3	79.6	83.9	83.5
Input Watts	188 W	188 W	188 W	188 W
NOM. Open Circuit Voltage	120	120	120	120
Power Factor	90%	90%	90%	90%
Current Crest Factor	1.50	1.50	1.50	1.50
Input Voltage At Lamp Dropout	95	180	190	225
MIN. Ambient Starting Temp.	-40°F/ -40°C	-40°F/ -40°C	-40°F/ -40°C	-40°F/ -40°C
<b>60 Hz TEST PROCEDURES</b>				
High Potential Test (Volts)				
1 Minute	2,000 V	2,000 V	2,000 V	2,000 V
1 Second	2,500 V	2,500 V	2,500 V	2,500 V
Open Circuit Voltage Test (V)	105 – 135	105 – 135	105 – 135	105 – 135
Short Circuit Current Test (A)				
Min	3.80	3.80	3.80	3.80
Secondary Current				
Max	4.70	4.70	4.70	4.70
Input Current				
Min	1.20	0.65	0.60	0.50
Max	1.85	1.00	0.95	0.80
Recommended Fuse (Amps)	7	4	4	4
<b>CORE and COIL Specifications</b>				
Dimension (A)	2.50 in	2.50 in	2.50 in	2.50 in
Dimension (B)	3.80 in	3.80 in	3.80 in	3.80 in
Weight	7.4 lbs	7.4 lbs	7.4 lbs	7.4 lbs
Lead Lengths	12"	12"	12"	12"
<b>Capacitor Requirement</b>				
Microfarads	14.0 uf	14.0 uf	14.0 uf	14.0 uf
Volts (Min)	280 V	280 V	280 V	280 V



Capacitor: CA14300DL	Ignitor: S55V
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Temp Rating: 100 °C	Temp: 105 °C
Height: 3.92 in	BTL: 10 ft
Dia/Oval Dim: 1.38 in	



## BALLAST SPECIFICATIONS

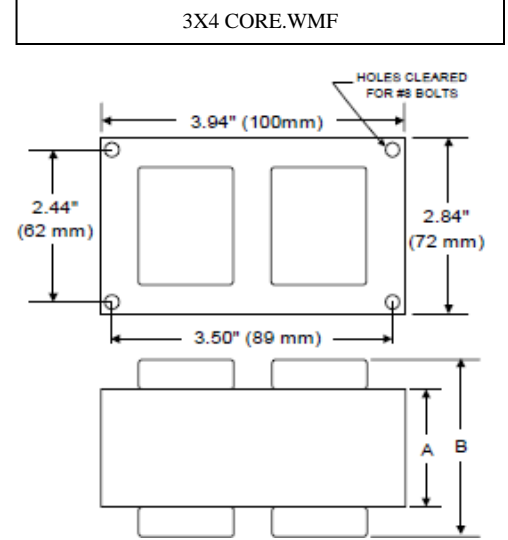
# 150W S55

## High Pressure Sodium

### S150S-48

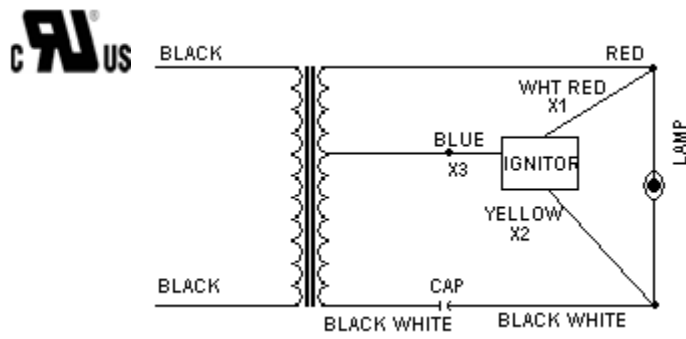
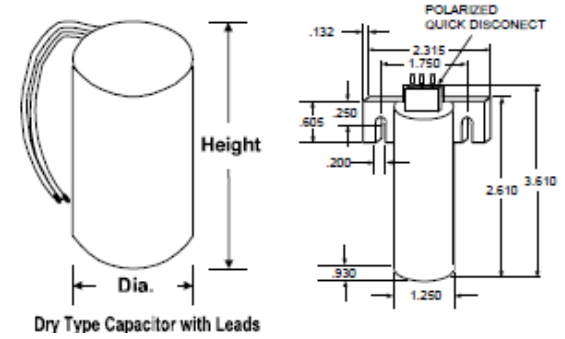
### 60 Hz CWI

Input Volts	480			
Line Current ( Amps )				
Operating	0.40			
Open Circuit	0.20			
Starting	0.25			
Recommended Fuse (Amps)	1			
Regulation				
Line Volts	±10%			
Lamp Watts	±6%			
Temperature Ratings				
Insulation Class	180 (H)			
Coil Temperature Code	D			
Benchtop Coil Rise	85.0			
Power Factor (Min)	90%			
Input Watts	186 W			
Efficiency				
NOM. Open Circuit Voltage	120			
Input Voltage At Lamp Dropout	250			
Min Ambient Starting Temp	-40°F/ -40°C			
60 Hz TEST PROCEDURES				
High Potential Test (Volts)				
1 Minute	2,000 V			
1 Second	2,500 V			
Open Circuit Voltage Test (V)	105 – 130			
Short Circuit Current Test (A)				
Min	3.90			
Secondary Current				
Max	4.80			
Min	0.20			
Input Current				
Max	0.30			
CORE and COIL Specifications				
Dimension (A)	3.15 in			
Dimension (B)	4.55 in			
Weight	11.0 lbs			
Lead Lengths	12"			
Capacitor Requirement				
Microfarads	51.0 uf			
Volts (Min)	180 V			



Capacitor:	CA14300DL	Ignitor:	S55V
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- Microfarads: 51.0 uf
- Volts (Max): 280 V
- Case Temp (Max): 100 °C
- Height (Max): 4.80 in
- Dia (Max): 1.80 in
- Case Temp (Max): 105 °C
- BTL Distance (Max): 3 ft





## BALLAST SPECIFICATIONS

# 250W S50

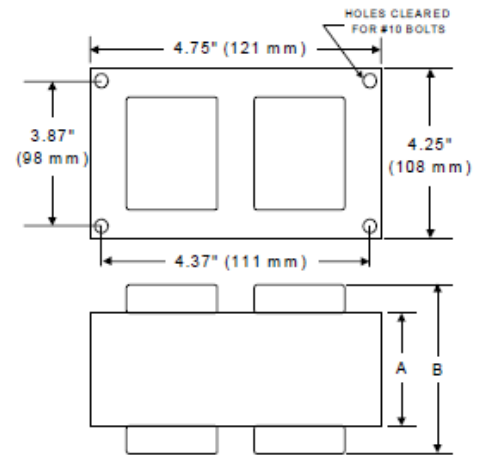
## High Pressure Sodium

### S250S-4

### 60 Hz CWA

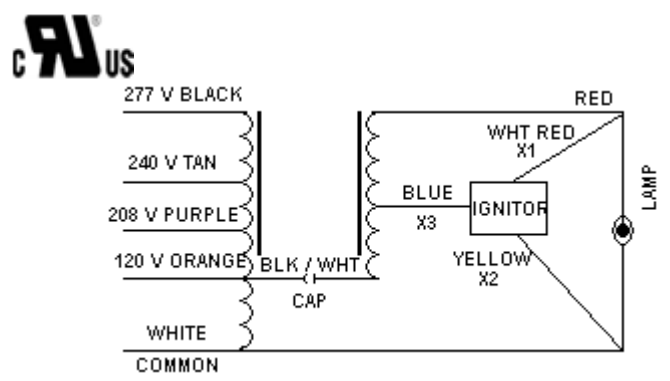
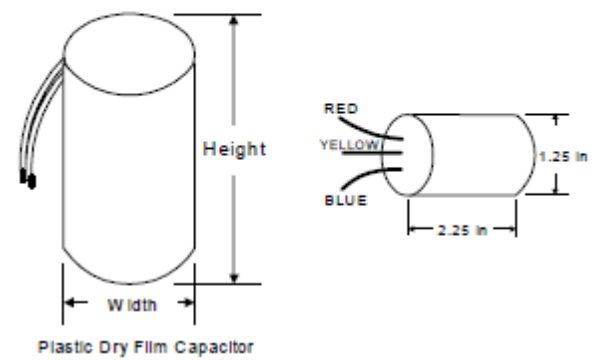
Input Volts	120	208	240	277
Line Current ( Amps )				
Operating	2.50	1.45	1.25	1.10
Open Circuit	1.90	1.10	0.95	0.85
Starting	1.80	1.00	0.90	0.75
Regulation				
Line Volts	±10%	±10%	±10%	±10%
Lamp Watts	±13%	±13%	±13%	±13%
UL Temperature Ratings				
Insulation Class	H	H	H	H
Coil Temperature Code	B	B	B	B
Benchtop Coil Rise	77.4	79.3	79.1	77.9
Input Watts	295 W	295 W	295 W	295 W
NOM. Open Circuit Voltage	195	195	195	195
Power Factor	90%	90%	90%	90%
Current Crest Factor	1.65	1.65	1.65	1.65
Input Voltage At Lamp Dropout	85	145	170	195
MIN. Ambient Starting Temp.	-40°F / -40°C	-40°F / -40°C	-40°F / -40°C	-40°F / -40°C
60 Hz TEST PROCEDURES				
High Potential Test (Volts)				
1 Minute	1,600 V	1,600 V	1,600 V	1,600 V
1 Second	2,000 V	2,000 V	2,000 V	2,000 V
Open Circuit Voltage Test (V)	175 – 215	175 – 215	175 – 215	175 – 215
Short Circuit Current Test (A)				
Min	3.80	3.80	3.80	3.80
Secondary Current				
Max	4.70	4.70	4.70	4.70
Min	1.25	0.70	0.60	0.50
Input Current				
Max	1.90	1.10	0.95	0.85
Recommended Fuse (Amps)	7	4	4	3
CORE and COIL Specifications				
Dimension (A)	1.80 in	1.80 in	1.80 in	1.80 in
Dimension (B)	3.60 in	3.60 in	3.60 in	3.60 in
Weight	11.0 lbs	11.0 lbs	11.0 lbs	11.0 lbs
Lead Lengths	12"	12"	12"	12"
Capacitor Requirement				
Microfarads	35.0 uf	35.0 uf	35.0 uf	35.0 uf
Volts (Min)	240 V	240 V	240 V	240 V

### 4X4 CORE – HX, CWA & CWI UNITS



Capacitor:	CA35280DL	Ignitor:	S100V
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Temp Rating: 100 °C      Temp: 105 °C  
 Height: 3.92 in      BTL: 2 ft  
 Dia/Oval Dim 1.60 in



## BALLAST SPECIFICATIONS

# 250W S50

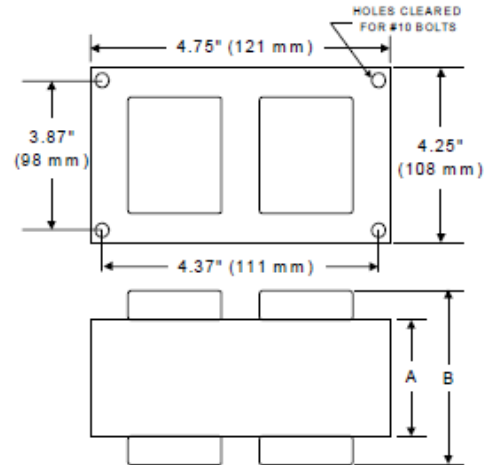
## High Pressure Sodium

### S250S-48/12

### 60 Hz CWA

Input Volts	480			
Line Current ( Amps )				
Operating	0.65			
Open Circuit	0.40			
Starting	0.47			
Regulation				
Line Volts	±10%			
Lamp Watts	±12%			
UL Temperature Ratings				
Insulation Class	H			
Coil Temperature Code	B			
Benchtop Coil Rise				
Input Watts	305 W			
NOM. Open Circuit Voltage	200			
Power Factor	90%			
Current Crest Factor	1.65			
Input Voltage At Lamp Dropout	320			
MIN. Ambient Starting Temp.	-40°F / -40°C			
60 Hz TEST PROCEDURES				
High Potential Test (Volts)				
1 Minute	2,000 V			
1 Second	2,400 V			
Open Circuit Voltage Test (V)	180 – 220			
Short Circuit Current Test (A)				
Min	3.80			
Secondary Current				
Max	4.70			
Min	0.30			
Input Current				
Max	0.60			
Recommended Fuse (Amps)	2			
CORE and COIL Specifications				
Dimension (A)	1.80 in			
Dimension (B)	3.60 in			
Weight	11.0 lbs			
Lead Lengths	12"			
Capacitor Requirement				
Microfarads	35.0 uf			
Volts (Min)	240 V			

4X4 CORE – HX, CWA & CWI UNITS

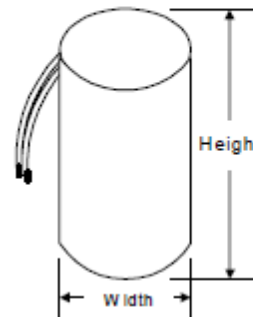


Capacitor: CA35280DL

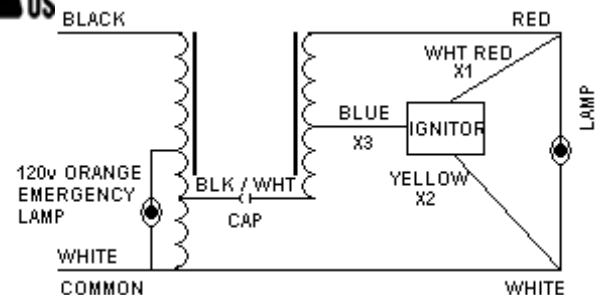
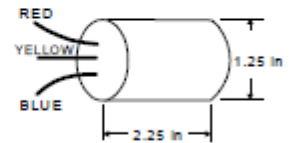
Ignitor: S100V

Temp Rating: 100 °C  
Height: 3.92 in  
Dia/Oval Dim 1.60 in

Temp: 105 °C  
BTL: 2 ft



Plastic Dry Film Capacitor



## BALLAST SPECIFICATIONS

# 400W S51

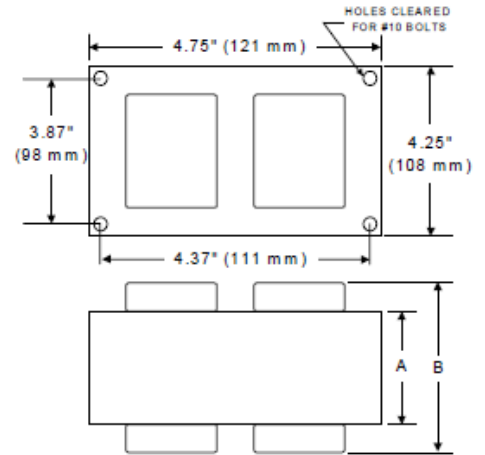
## High Pressure Sodium

### S400S-4

### 60 Hz CWA

Input Volts	120	208	240	277
Line Current ( Amps )				
Operating	3.80	2.20	1.90	1.70
Open Circuit	1.50	0.85	0.75	0.65
Starting	3.70	2.15	1.85	1.60
Regulation				
Line Volts	±10%	±10%	±10%	±10%
Lamp Watts	±13%	±13%	±13%	±13%
UL Temperature Ratings				
Insulation Class	H	H	H	H
Coil Temperature Code	C	C	C	C
Benchtop Coil Rise	83.8	84.2	85.9	82.3
Input Watts	460 W	460 W	460 W	460 W
NOM. Open Circuit Voltage	195	195	195	195
Power Factor	90%	90%	90%	90%
Current Crest Factor	1.60	1.60	1.60	1.60
Input Voltage At Lamp Dropout	90	155	180	205
MIN. Ambient Starting Temp.	-40°F / -40°C	-40°F / -40°C	-40°F / -40°C	-40°F / -40°C
<b>60 Hz TEST PROCEDURES</b>				
High Potential Test (Volts)				
1 Minute	1,600 V	1,600 V	1,600 V	1,600 V
1 Second	2,000 V	2,000 V	2,000 V	2,000 V
Open Circuit Voltage Test (V)	175 - 215	175 - 215	175 - 215	175 - 215
Short Circuit Current Test (A)				
Min	6.25	6.25	6.25	6.25
Secondary Current				
Max	7.65	7.65	7.65	7.65
Min	3.00	1.70	1.50	1.30
Input Current				
Max	4.50	2.60	2.25	1.95
Recommended Fuse (Amps)	10	7	6	5
<b>CORE and COIL Specifications</b>				
Dimension (A)	2.30 in	2.30 in	2.30 in	2.30 in
Dimension (B)	4.20 in	4.20 in	4.20 in	4.20 in
Weight	14.0 lbs	14.0 lbs	14.0 lbs	14.0 lbs
Lead Lengths	12"	12"	12"	12"
<b>Capacitor Requirement</b>				
Microfarads	55.0 uf	55.0 uf	55.0 uf	55.0 uf
Volts (Min)	240 V	240 V	240 V	240 V

#### 4X4 CORE – HX, CWA & CWI Units

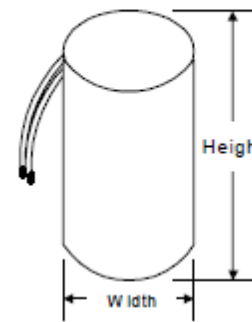


Capacitor: CA55240DL

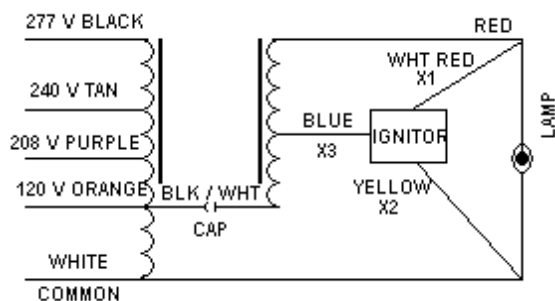
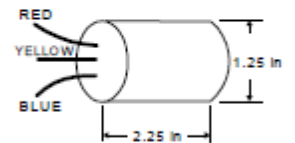
Ignitor: S100V

Temp Rating: 100 °C  
Height: 4.87 in  
Dia/Oval Dim 1.75 in

Temp: 105 °C  
BTL: 2 ft



Plastic Dry Film Capacitor





## BALLAST SPECIFICATIONS

# 400W S51

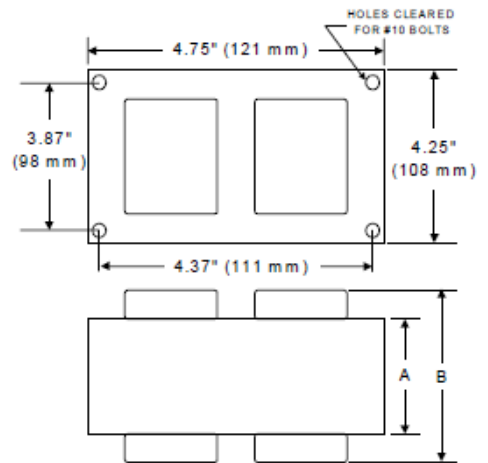
## High Pressure Sodium

### S400S-48/12

### 60 Hz CWA

Input Volts	480			
Line Current ( Amps )				
Operating	1.00			
Open Circuit	0.40			
Starting	0.80			
Regulation				
Line Volts	±10%			
Lamp Watts	±13%			
UL Temperature Ratings				
Insulation Class	H			
Coil Temperature Code	C			
Benchtop Coil Rise	81.9			
Input Watts	464 W			
NOM. Open Circuit Voltage	195			
Power Factor	90%			
Current Crest Factor	1.63			
Input Voltage At Lamp Dropout	370			
MIN. Ambient Starting Temp.	-40°F / -40°C			
60 Hz TEST PROCEDURES				
High Potential Test (Volts)				
1 Minute	2,000 V			
1 Second	2,400 V			
Open Circuit Voltage Test (V)	175 – 215			
Short Circuit Current Test (A)				
Min	6.35			
Secondary Current				
Max	7.75			
Min	0.55			
Input Current				
Max	0.90			
Recommended Fuse (Amps)	3			
CORE and COIL Specifications				
Dimension (A)	2.60 in			
Dimension (B)	4.45 in			
Weight	15.0 lbs			
Lead Lengths	12"			
Capacitor Requirement				
Microfarads	55.0 uf			
Volts (Min)	240 V			

4X4 CORE – HX, CWA & CWI Units

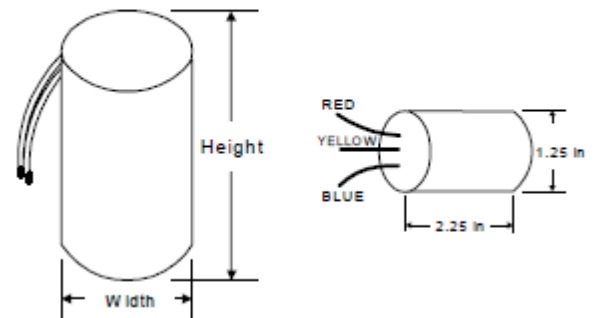


Capacitor: CA55240DL

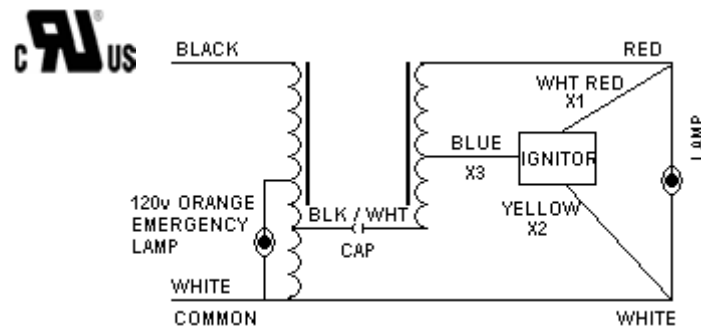
Ignitor: S100V

Temp Rating: 100 °C  
Height: 4.87 in  
Dia/Oval Dim 1.75 in

Temp: 105 °C  
BTL: 15 ft



Plastic Dry Film Capacitor





## BALLAST SPECIFICATIONS

# 1000W S52

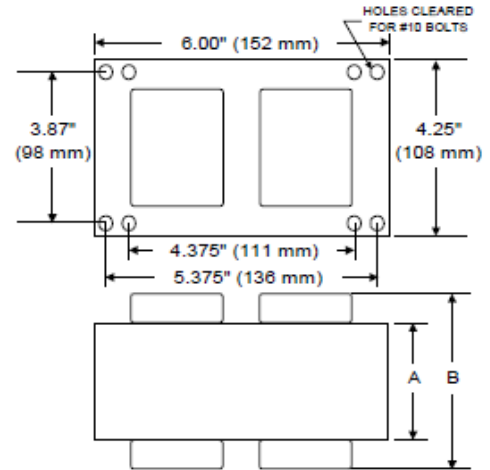
## High Pressure Sodium

### S1000S-4

### 60 Hz CWA

Input Volts	120	208	240	277
Line Current ( Amps )				
Operating	9.50	5.50	4.75	4.20
Open Circuit	4.80	2.75	2.40	2.05
Starting	7.20	4.15	3.60	3.10
Regulation				
Line Volts	±10%	±10%	±10%	±10%
Lamp Watts	±13%	±13%	±13%	±13%
UL Temperature Ratings				
Insulation Class	H	H	H	H
Coil Temperature Code	C	B	C	C
Benchtop Coil Rise	83.8	77.8	81.8	80.5
Input Watts	1100 W	1100 W	1100 W	1100 W
NOM. Open Circuit Voltage	425	425	425	425
Power Factor	90%	90%	90%	90%
Current Crest Factor	1.65	1.65	1.65	1.65
Input Voltage At Lamp Dropout	95	170	190	220
MIN. Ambient Starting Temp.	-40°F / -40°C	-40°F / -40°C	-40°F / -40°C	-40°F / -40°C
60 Hz TEST PROCEDURES				
High Potential Test (Volts)				
1 Minute	2,000 V	2,000 V	2,000 V	2,000 V
1 Second	2,400 V	2,400 V	2,400 V	2,400 V
Open Circuit Voltage Test (V)	380 – 470	380 – 470	380 – 470	380 – 470
Short Circuit Current Test (A)				
Min	6.20	6.20	6.20	6.20
Secondary Current				
Max	7.60	7.60	7.60	7.60
Min	5.20	3.15	2.60	2.35
Input Current				
Max	8.20	4.80	4.10	3.55
Recommended Fuse (Amps)	25	15	12	10
CORE and COIL Specifications				
Dimension (A)	3.75 in	3.75 in	3.75 in	3.75 in
Dimension (B)	5.90 in	5.90 in	5.90 in	5.90 in
Weight	27.0 lbs	27.0 lbs	27.0 lbs	27.0 lbs
Lead Lengths	12"	12"	12"	12"
Capacitor Requirement				
Microfarads	26.0 uf	26.0 uf	26.0 uf	26.0 uf
Volts (Min)	525 V	525 V	525 V	525 V

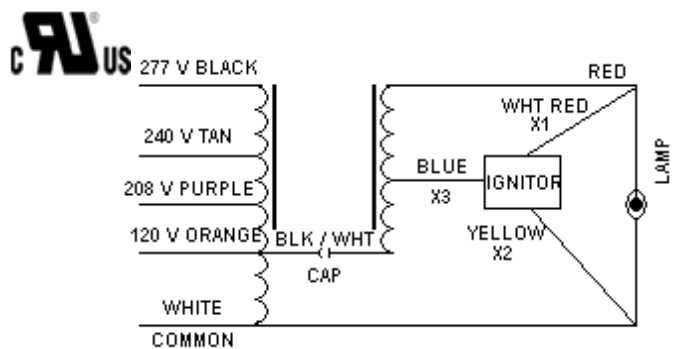
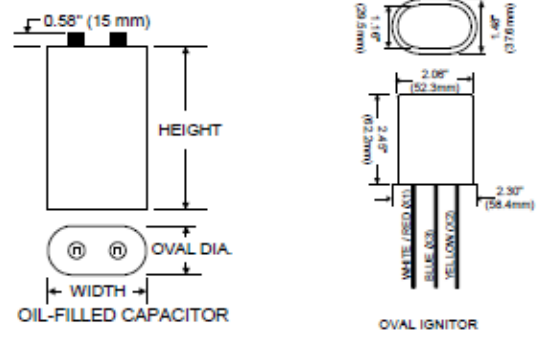
### 4X4 CORE – HX, CWA & CWI UNITS



Capacitor:	CA26525	Ignitor:	S250V
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Value: 26.0 uf  
 Temp Rating: 100 °C  
 Height: 4.37 in  
 Dia/Oval Dim 1.97 in

Temp: 105 °C  
 BTL: 5 ft



## BALLAST SPECIFICATIONS

# 1000W S52

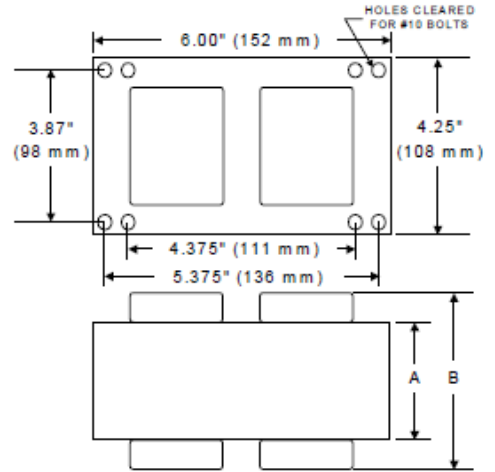
## High Pressure Sodium

### S1000S-48/12

### 60 Hz CWA

Input Volts	480			
Line Current ( Amps )				
Operating	2.30			
Open Circuit	0.80			
Starting	2.30			
Regulation				
Line Volts	±10%			
Lamp Watts	±14%			
UL Temperature Ratings				
Insulation Class	H			
Coil Temperature Code	C			
Benchtop Coil Rise	82.9			
Input Watts	1100 W			
NOM. Open Circuit Voltage	430			
Power Factor	90%			
Current Crest Factor	1.65			
Input Voltage At Lamp Dropout	385			
MIN. Ambient Starting Temp.	-40°F / -40°C			
60 Hz TEST PROCEDURES				
High Potential Test (Volts)				
1 Minute	2,000 V			
1 Second	2,400 V			
Open Circuit Voltage Test (V)	385 – 475			
Short Circuit Current Test (A)				
Min	6.35			
Secondary Current				
Max	7.80			
Min	1.80			
Input Current				
Max	2.80			
Recommended Fuse (Amps)	6			
CORE and COIL Specifications				
Dimension (A)	3.90 in			
Dimension (B)	5.90 in			
Weight	28.8 lbs			
Lead Lengths	12"			
Capacitor Requirement				
Microfarads	26.0 uf			
Volts (Min)	525 V			

### 4X6 CORE – HX, CWA & CWI UNITS



Capacitor:	CA26525	Ignitor:	S250V
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Temp Rating: 90 °C      Temp: 105 °C  
 Height: 4.37 in      BTL: 2 ft  
 Dia/Oval Dim 1.97 in  
 Width 2.97

