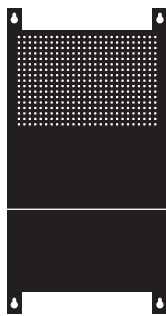


# Specification Grade Dimming Panels

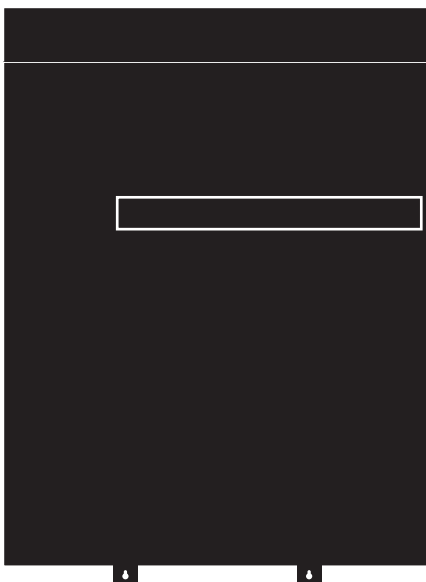
8 Series
Panels & Enclosures
N/A
N/A

The Specification Grade Panel is meant for extreme dimming applications where high performance and minimized filament noise are paramount. Specification Grade Panels utilize high inductance toroidal chokes on every circuit, thus minimizing filament noise (buzz) as well as minimizing electrical noise associated with dimming that may interfere with sensitive equipment such as audio/video and computers. The Specification Grade Panel contains a Specification-Grade Panel Interface (SPI), which allows it to wire onto the 8 Series processor's MI link (Link 1) with other HomeWorks® dimming panels.

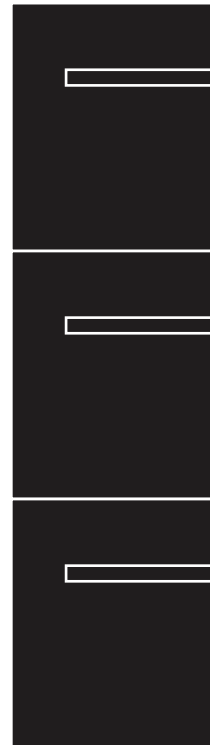
## THREE- AND FOUR-CIRCUIT DIMMING PANELS (MODEL # HS3- AND HS4-)



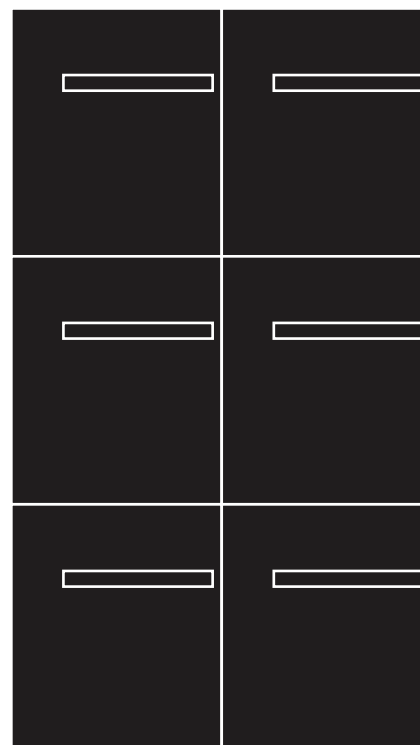
## EIGHT-, SIXTEEN-, AND TWENTY-FOUR-CIRCUIT DIMMING PANELS (MODEL # HS8-, HS16-, AND HS24-)



## THIRTY-SIX-CIRCUIT DIMMING PANELS (MODEL # HS36-)



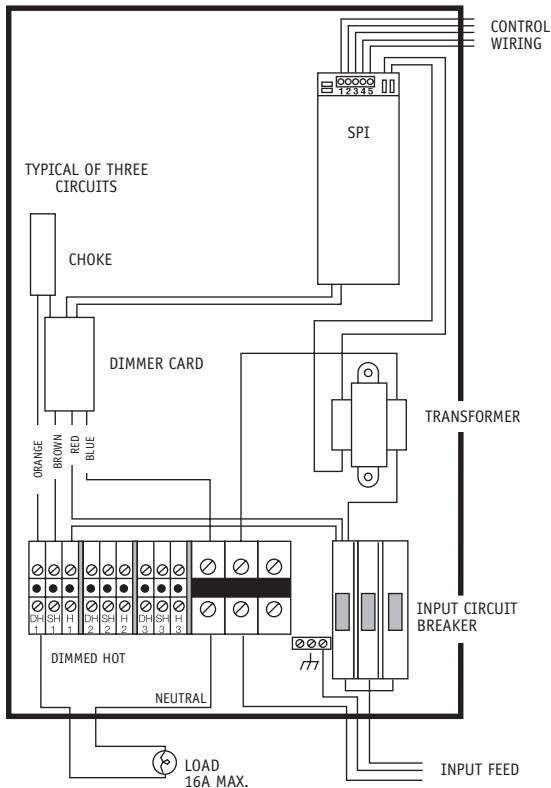
## SEVENTY-TWO-CIRCUIT DIMMING PANELS (MODEL # HS72-)



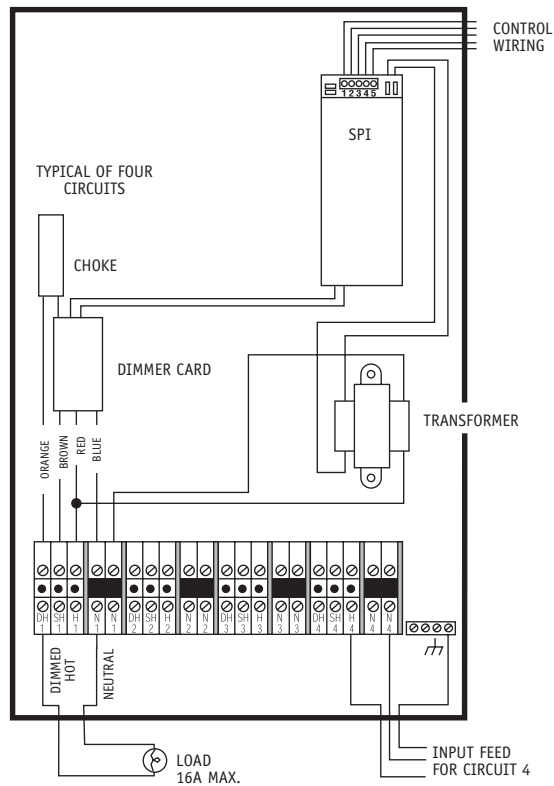
BACK ROOM

# Specification Grade Dimming Panels (cont.)

**THREE-CIRCUIT DIMMING PANEL  
(MODEL # HS3-)**



**FOUR-CIRCUIT DIMMING PANEL  
(MODEL # HS4-)**



## HS3 and HS4 Model Numbers

Number of Circuits	Feed Voltage	Feed Type	Maximum Feed	Panel Feed/Branch Circuit Breakers <sup>1</sup>	Model Number
HS3	120 V~	3Ø, 4W	15 A	15 A	HS3-120M-15
			20 A	20 A	HS3-120M-20
HS4	120 V~	Feed Through	15 A	15 A <sup>2</sup>	HS4-120FTML
			20 A	20 A <sup>2</sup>	HS4-120FTML

## Wire Sizes

Panel	Wiring	Termination	Wire Sizes
HS3	Hot/Live	Breaker	14 AWG to 10 AWG (2.5 mm <sup>2</sup> to 4.0 mm <sup>2</sup> )
	Neutral	Neutral Lug	14 AWG to 8 AWG (2.5 mm <sup>2</sup> to 6.0 mm <sup>2</sup> )
	Load	Terminal Blocks	14 AWG to 10 AWG (2.5 mm <sup>2</sup> to 4.0 mm <sup>2</sup> )
HS4	Hot/Live	Terminal Blocks	14 AWG to 10 AWG (2.5 mm <sup>2</sup> to 4.0 mm <sup>2</sup> )
	Neutral	Terminal Blocks	14 AWG to 10 AWG (2.5 mm <sup>2</sup> to 4.0 mm <sup>2</sup> )
	Load	Terminal Blocks	14 AWG to 10 AWG (2.5 mm <sup>2</sup> to 4.0 mm <sup>2</sup> )

# Specification Grade Dimming Panels (cont.)

Input Voltage	See HS3 and HS4 Model Numbers, pg. 160
Regulatory Approvals	UL, CSA, NOM
Environment	Ambient operating temperature: 0 °C to 40 °C, 32 °F to 104 °F Ambient operating humidity: 0-90% humidity, non-condensing. Indoor use only.
Cooling	Passive cooling. Mount in a place where the vented cover will not be blocked. See pg 162.
Heat Generated Fully Loaded	685 BTUs per hr. maximum.
Arc Fault Circuit Interruptor (AFCI) Breakers	These panels can be ordered with GFCI (Ground-Fault Circuit Interruptor) or AFCI (Arc-Fault Circuit Interruptor) breakers. Contact Lutron Customer Service for ordering details.
Ground Bar Terminals	24 ground termination points.
Miswire Protection	All terminal blocks are shipped with bypass jumpers installed.
Mounting	Must be installed in a way to provide sufficient access and working space according to the National Electrical Code (NEC). Surface-mounted. Panel must be mounted vertically (+/- 7 degrees from vertical). Allow at least 12 in (30 cm) air space at top and bottom and a minimum of 12 in (30 cm) clearance in front of panel, or allow air space as required by local codes (whichever is greater). Panels will hum slightly and internal relays will click while in use. Mount where such noise is acceptable. Mount the panel so that line-voltage wiring will be at least 6 feet (1.8 m) from audio or electronic equipment and its wiring.
Dimensions	14 <sup>3</sup> / <sub>8</sub> in (36.5 cm) x 24 in (61 cm) x 3 in (9.8 cm) See Fig. 1, pg. 162.
Construction	Enclosure: Painted (black) 16 US gauge steel. Cover: Painted (black) metal cover with ventilation holes. Cover is attached using four phillips-head screws.
Shipping Weight	HS3: 20 lbs. (9.1 kg) without packaging HS4: 21 lbs. (9.5 kg) without packaging

# Specification Grade Dimming Panels (cont.)

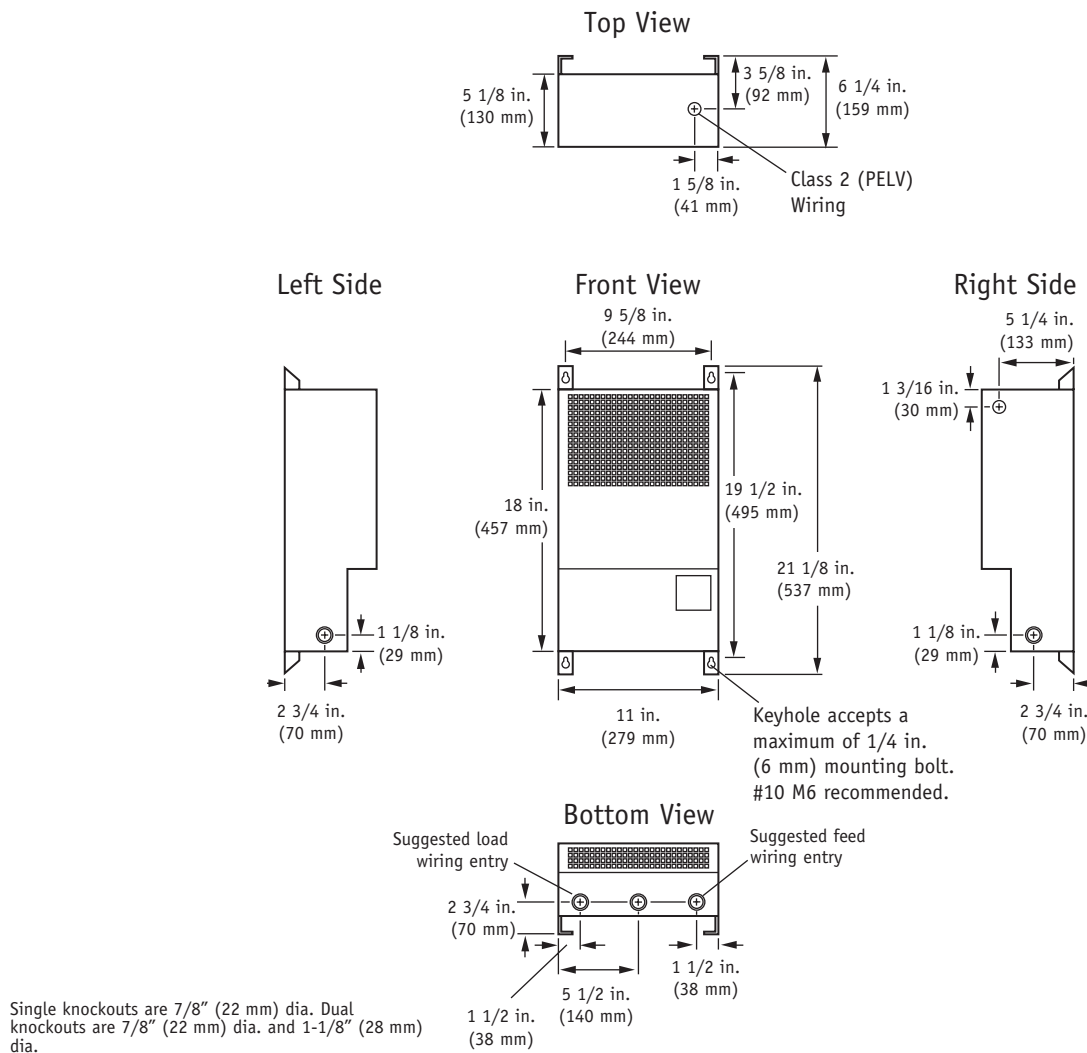
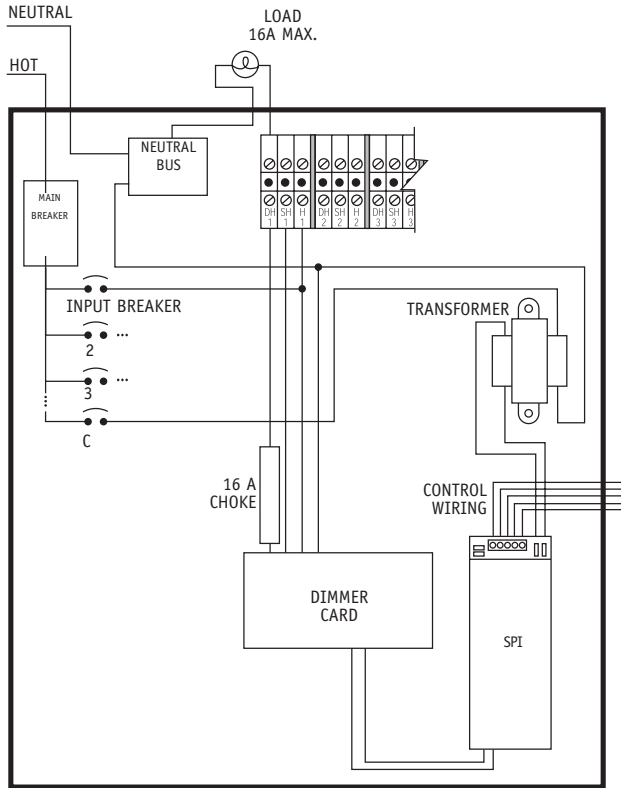


Figure 1 - HS3 and HS4 Dimensions and Conduit Entry

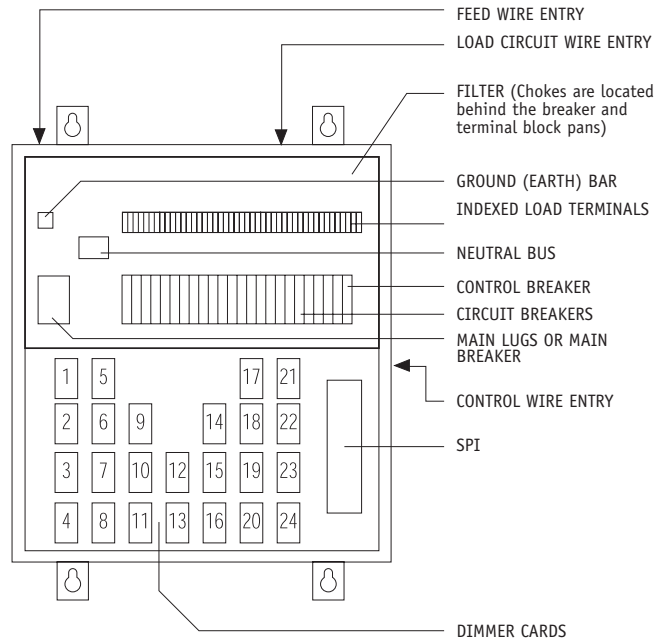
BACK ROOM

# Specification Grade Dimming Panels (cont.)

## EIGHT-CIRCUIT, SIXTEEN-CIRCUIT, AND TWENTY-FOUR-CIRCUIT DIMMING PANELS (MODEL # HS8-, HS16-, HS24-)



HS8 through 24 Components



# Specification Grade Dimming Panels (cont.)

## HS8, HS16 and HS24 Model Numbers

Number of Circuits	Feed Voltage	Feed Type	Panel Feed	Maximum Feed	Panel Feed/Branch Circuit Breakers <sup>1</sup>	Model Number	
HS8	120 V~	1Ø, 2W	Main Lugs Only	175 A	15 A	HS8-1202ML-15	
					20 A	HS8-1202ML-20	
		1Ø, 3W	Main Lugs Only	175 A	15 A	HS8-1203ML-15	
					20 A	HS8-1203ML-20	
			60 A Main Breaker	60 A	15 A	HS8-1203M60-15	
				80 A	20 A	HS8-1203M80-20	
	3Ø, 4W	Main Lugs Only	175 A	15 A	HS8-1204ML-15		
				20 A	HS8-1204ML-20		
		50 A Main Breaker	50 A	15 A	HS8-1204M50-15		
			60 A	20 A	HS8-1204M60-20		
		Dual Tap Main Lugs	225 A	15 A	HS8-1204DTML-15		
			20 A	HS8-1204DTML-20			
HS16	120 V~	1Ø, 3W	Main Lugs Only	175 A	15 A	HS16-1203ML-15	
					20 A	HS16-1203ML-20	
					125 A Main Breaker	125 A	15 A
		175 A Main Breaker	175 A	20 A	HS16-1203M175-20		
		3Ø, 4W	Main Lugs Only	175 A	15 A	HS16-1204ML-15	
					20 A	HS16-1204ML-20	
	100 A Main Breaker				100 A	15 A	HS16-1204M100-15
	125 A Main Breaker	125 A	20 A	HS16-1204M125-20			
	Dual Tap Main Lugs	225 A	15 A	HS16-1204DTML-15			
		20 A	HS16-1204DTML-20				
	HS24	120 V~	1Ø, 3W	Main Lugs Only	225 A	15 A	HS24-1203ML-15
						20 A	HS24-1203ML-20
3Ø, 4W			Main Lugs Only	175 A	15 A	HS24-1204ML-15	
					20 A	HS24-1204ML-20	
			125 A Main Breaker	125 A	15 A	HS24-1204M125-15	
				175 A	20 A	HS24-1204M175-20	
Dual Tap Main Lugs		225 A	15 A	HS24-1204DTML-15			
		20 A	HS24-1204DTML-20				

## Wire Sizes

Wiring	Termination	Wire Sizes
Hot/Live/Neutral	Main Lugs Only	14 AWG to 2/0 AWG (2.5 mm <sup>2</sup> to 70 mm <sup>2</sup> )
	Dual-Tap Main Lugs	6 AWG to 4/0 AWG (16 mm <sup>2</sup> to 95 mm <sup>2</sup> )
	50 A to 100 A Main Breakers	14 AWG to 1/0 AWG (2.5 mm <sup>2</sup> to 50 mm <sup>2</sup> )
	125 A to 175 A Main Breakers	4 AWG to 350 KCMIL/MCM (25 mm <sup>2</sup> to 185 mm <sup>2</sup> )
Load	Terminal Blocks	14 AWG to 10 AWG (2.5 mm <sup>2</sup> to 4.0 mm <sup>2</sup> )

# Specification Grade Dimming Panels (cont.)

Input Voltage	See HS8, HS16 and HS24 Model Numbers, pg. 164.
Regulatory Approvals	UL, CSA, NOM
Environment	Ambient operating temperature: 0 °C to 40 °C, 32 °F to 104 °F Ambient operating humidity: 0-90% humidity, non-condensing. Indoor use only.
Cooling	Passive cooling. Mount in a place where the vented cover will not be blocked. See pg 166.
Heat Generated Fully Loaded	HS8: 1365 BTUs per hr. maximum. HS16: 2725 BTUs per hr. maximum. HS24: 4085 BTUs per hr. maximum.
Arc Fault Circuit Interruptor (AFCI) Breakers	These panels can be ordered with GFCI (Ground-Fault Circuit Interruptor) or AFCI (Arc-Fault Circuit Interruptor) breakers. Contact Lutron Customer Service for ordering details.
Ground Bar Terminals	24 ground termination points.
Miswire Protection	All terminal blocks are shipped with bypass jumpers installed.
Mounting	Must be installed in a way to provide sufficient access and working space according to the National Electrical Code (NEC). Surface-mounted. Panel must be mounted vertically (+/- 7 degrees from vertical). Allow at least 12 in (30 cm) air space at top and bottom and a minimum of 12 in (30 cm) clearance in front of panel, or allow air space as required by local codes (whichever is greater). Panels will hum slightly and internal relays will click while in use. Mount where such noise is acceptable. Mount the panel so that line-voltage wiring will be at least 6 feet (1.8 m) from audio or electronic equipment and its wiring.
Dimensions	See Fig. 1, pg. 166.
Construction	Enclosure: Painted (black) 16 US gauge steel. Cover: Painted (black) metal cover with ventilation holes. Cover is attached using four phillips-head screws.
Shipping Weight	HS8: 115 lbs. (52 kg) without packaging HS16: 145 lbs. (66 kg) without packaging HS24: 175 lbs. (80 kg) without packaging

# Specification Grade Dimming Panels (cont.)

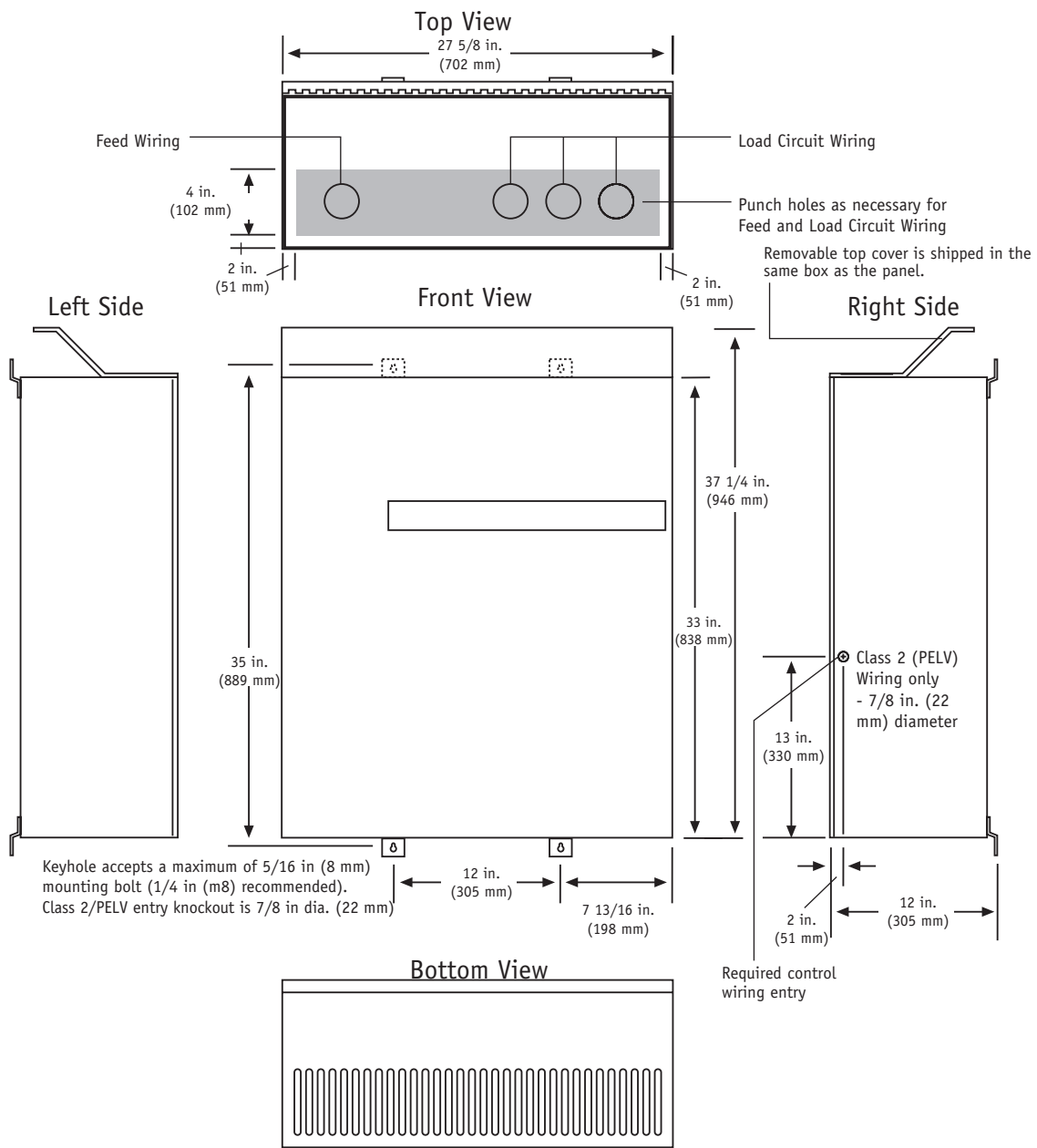


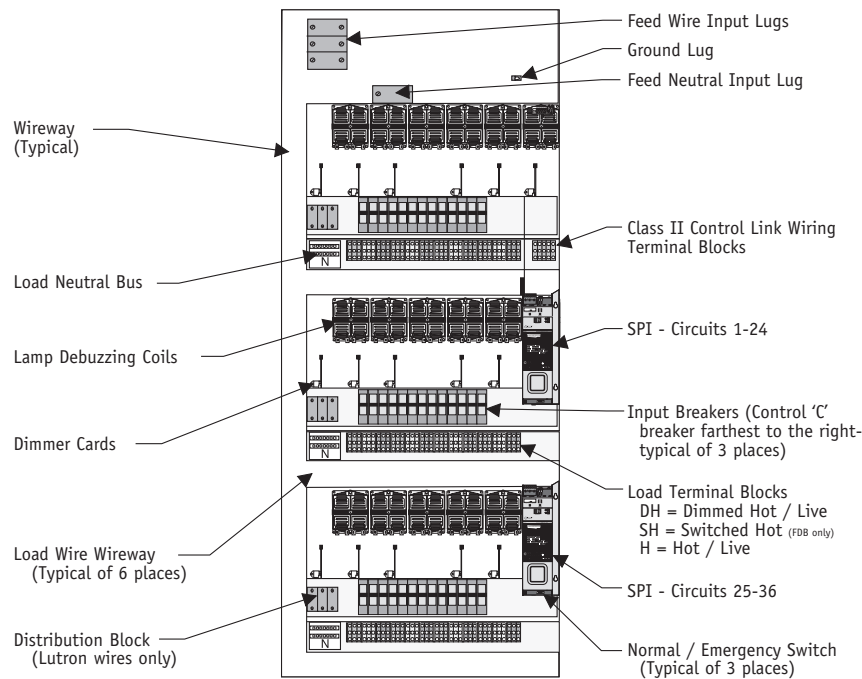
Figure 1 - HS8, HS16 and HS24 Dimensions and Conduit Entry

BACK ROOM

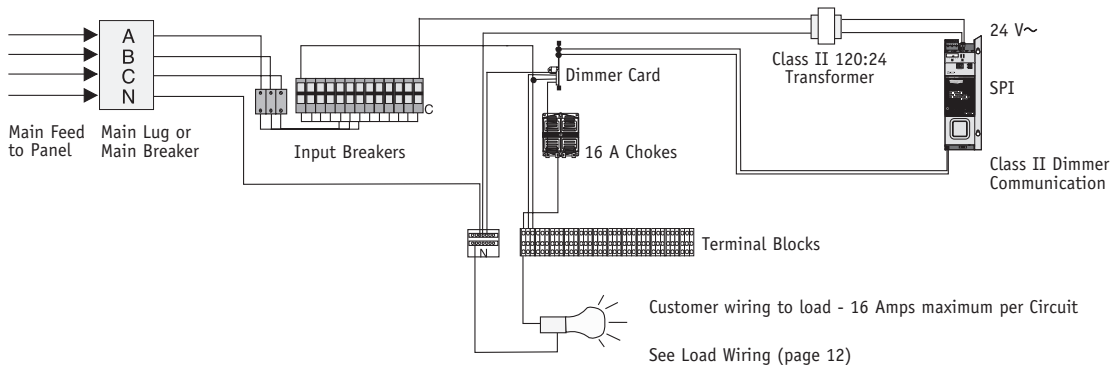


# Specification Grade Dimming Panels (cont.)

## THIRTY-SIX-CIRCUIT DIMMING PANEL (MODEL # HS36-)



### Internal Wiring (Only One Representative Circuit Shown)



### HS36 Model Numbers

Number of Circuits	Feed Voltage	Feed Type	Panel Feed	Maximum Feed	Panel Feed/Branch Circuit Breakers <sup>1</sup>	Model Number
HS36	120 V~	3Ø, 4W	Main Lugs Only	750 A	15 A	HS36-1204ML-15
					20 A	HS36-1204ML-20
			200 A Main Breaker	200 A	15 A	HS36-1204M200-15
			250 A Main Breaker	250 A	20 A	HS36-1204M250-20

### Wire Sizes

Wiring	Termination	Wire Sizes
Hot/Live/Neutral	Main Lugs Only	Parallel 4/0 AWG to 500 KCMIL/MCM (95 mm <sup>2</sup> to 240 mm <sup>2</sup> )
	200 A to 400 A Main Breakers	1/0 AWG to 600 KCMIL/MCM (50 mm <sup>2</sup> to 300 mm <sup>2</sup> )
Load	Terminal Blocks	14 AWG to 10 AWG (2.5 mm <sup>2</sup> to 4.0 mm <sup>2</sup> )

# Specification Grade Dimming Panels (cont.)

Input Voltage	See <i>HS36 Model Numbers</i> , pg. 167.
Regulatory Approvals	UL, CSA, NOM
Environment	Ambient operating temperature: 0 °C to 40 °C, 32 °F to 104 °F Ambient operating humidity: 0-90% humidity, non-condensing. Indoor use only.
Cooling	Passive cooling. Mount in a place where the vented cover will not be blocked.
Heat Generated Fully Loaded	HS36: 4350 BTUs per hr. maximum.
Arc Fault Circuit Interruptor (AFCI) Breakers	These panels can be ordered with GFCI (Ground-Fault Circuit Interruptor) or AFCI (Arc-Fault Circuit Interruptor) breakers. Contact Lutron Customer Service for ordering details.
Ground Bar Terminals	24 ground termination points.
Miswire Protection	All terminal blocks are shipped with bypass jumpers installed.
Mounting	Must be installed in a way to provide sufficient access and working space according to National Electrical Code (NEC). Surface-mounted. Panel must be mounted vertically (+/- 7 degrees from vertical). Allow at least 12 in (30 cm) air space at top and bottom and a minimum of 12 in (30 cm) clearance in front of panel, or allow air space as required by local codes (whichever is greater). Panels will hum slightly and internal relays will click while in use. Mount where such noise is acceptable. Mount the panel so that line-voltage wiring will be at least 6 feet (1.8 m) from audio or electronic equipment and its wiring.
Dimensions	See <i>Fig. 1</i> , pg. 169.
Construction	Enclosure: Painted (black) 16 US gauge steel. Cover: Painted (black) metal cover with ventilation holes. Cover is attached using four phillips-head screws.
Shipping Weight	HS36: 325 lbs. (147 kg) without packaging

# Specification Grade Dimming Panels (cont.)

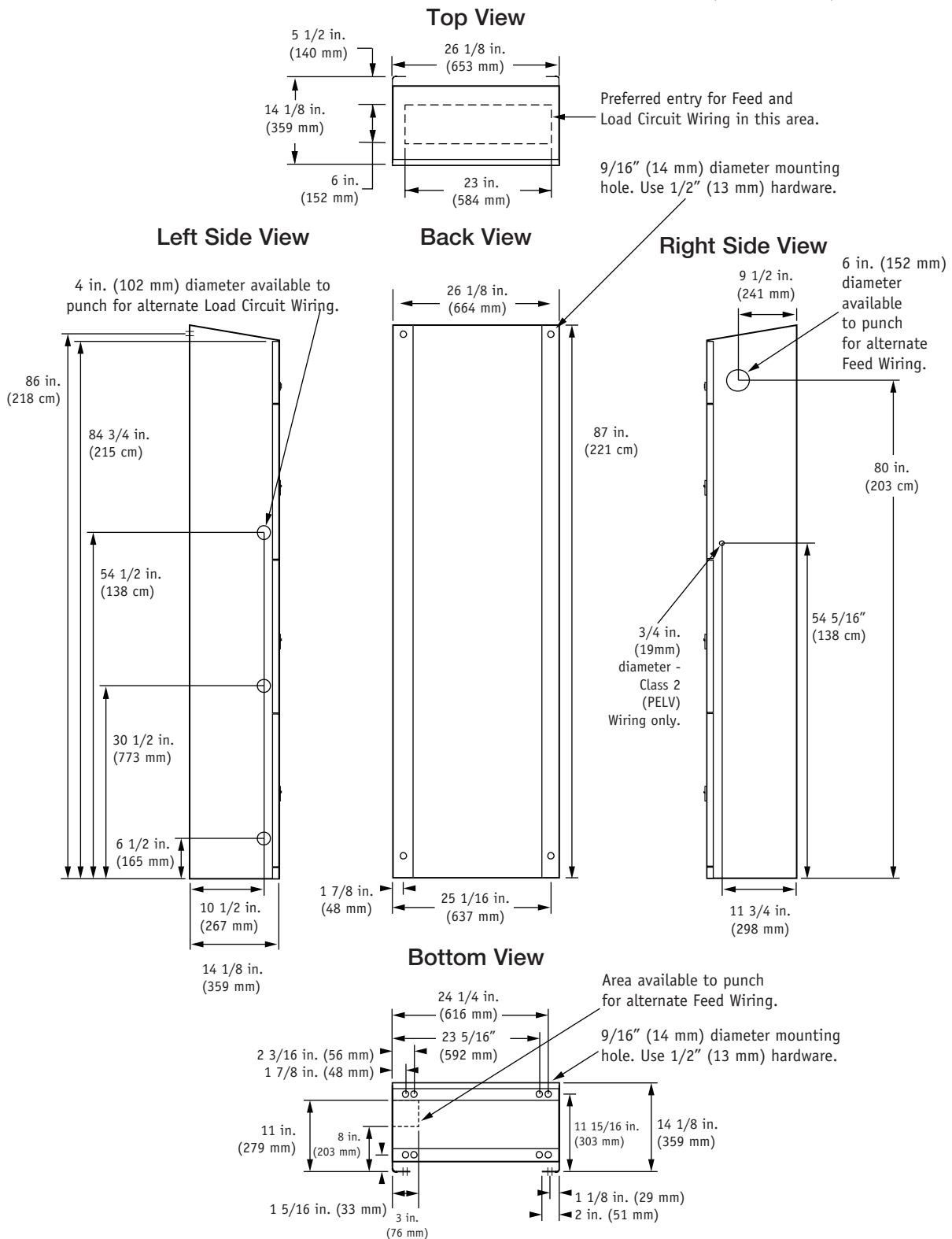
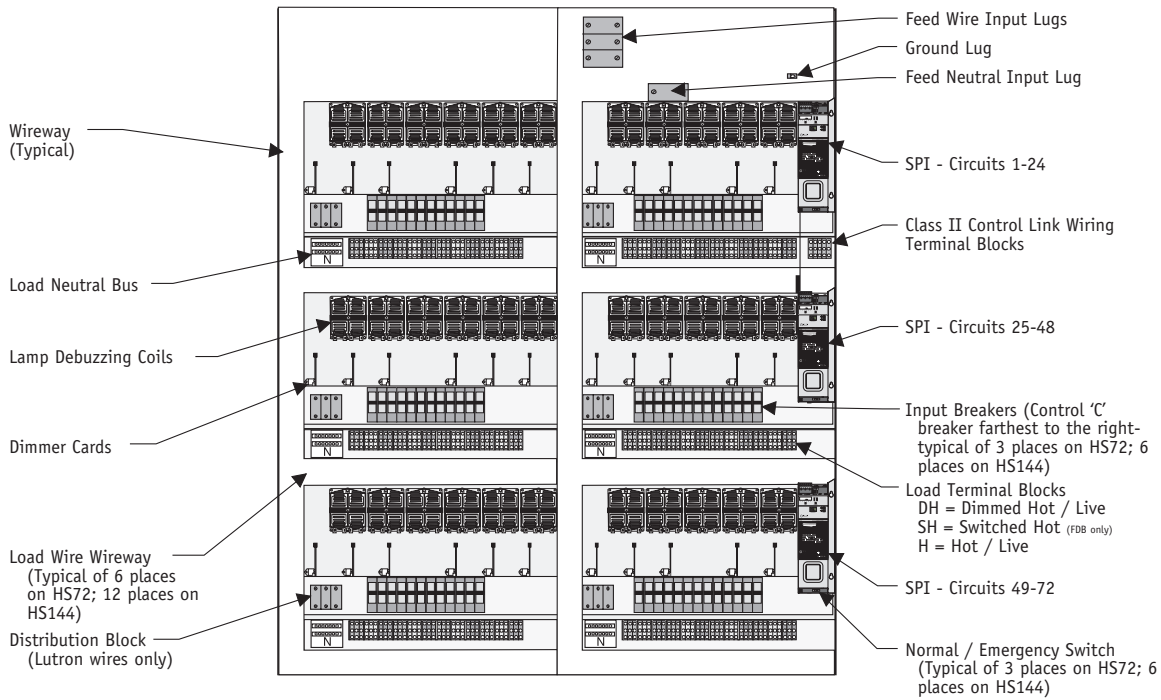


Figure 1 - HS36 Dimensions and Conduit Entry

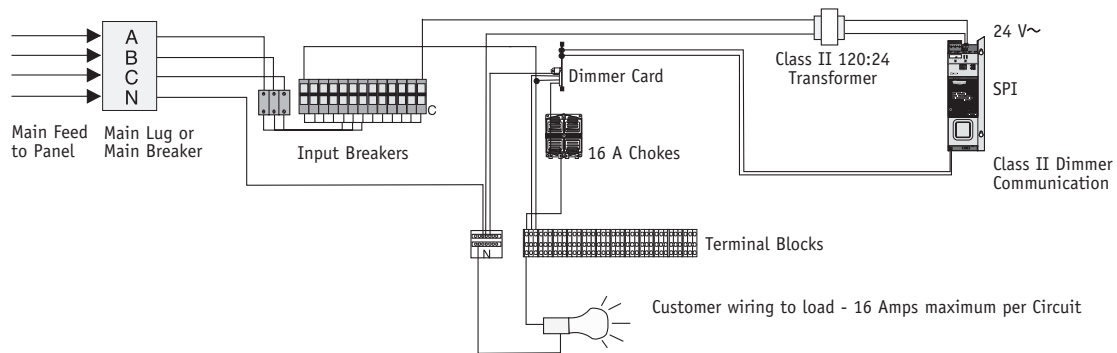
BACK ROOM

# Specification Grade Dimming Panels (cont.)

## SEVENTY-TWO-CIRCUIT DIMMING PANELS (MODEL # HS72-)



### Internal Wiring (Only One Representative Circuit Shown)



On reverse side (HS144 only):  
 SPI - Circuits 73-96  
 SPI - Circuits 97-120  
 SPI - Circuits 121-144

### HS72 Model Numbers

Number of Circuits	Feed Voltage	Feed Type	Panel Feed	Maximum Feed	Panel Feed/Branch Circuit Breakers <sup>1</sup>	Model Number
HS72	120 V~	3Ø, 4W	Main Lugs Only	750 A	15 A	HS72-1204ML-15
					20 A	HS72-1204ML-20
			350 A Main Breaker	350 A	15 A	HS72-1204M350-15
			400 A Main Breaker	400 A	20 A	HS72-1204M400-20

### Wire Sizes

Wiring	Termination	Wire Sizes
Hot/Live/Neutral	Main Lugs Only	Parallel 4/0 AWG to 500 KCMIL/MCM (95 mm <sup>2</sup> to 240 mm <sup>2</sup> )
	200 A to 400 A Main Breakers	1/0 AWG to 600 KCMIL/MCM (50 mm <sup>2</sup> to 300 mm <sup>2</sup> )
Load	Terminal Blocks	14 AWG to 10 AWG (2.5 mm <sup>2</sup> to 4.0 mm <sup>2</sup> )

# Specification Grade Dimming Panels (cont.)

Input Voltage	See HS72 Model Numbers, pg. 170.
Regulatory Approvals	UL, CSA, NOM
Environment	Ambient operating temperature: 0 °C to 40 °C, 32 °F to 104 °F Ambient operating humidity: 0-90% humidity, non-condensing. Indoor use only.
Cooling	Passive cooling. Mount in a place where the vented cover will not be blocked.
Heat Generated Fully Loaded	HS72: 8700 BTUs per hr. maximum.
Arc Fault Circuit Interruptor (AFCI) Breakers	These panels can be ordered with GFCI (Ground-Fault Circuit Interruptor) or AFCI (Arc-Fault Circuit Interruptor) breakers. Contact Lutron Customer Service for ordering details.
Ground Bar Terminals	24 ground termination points.
Miswire Protection	All terminal blocks are shipped with bypass jumpers installed.
Mounting	Must be installed in a way to provide sufficient access and working space according to National Electrical Code (NEC). Surface-mounted. Panel must be mounted vertically (+/- 7 degrees from vertical). Allow at least 12 in (30 cm) air space at top and bottom and a minimum of 12 in (30 cm) clearance in front of panel, or allow air space as required by local codes (whichever is greater). Panels will hum slightly and internal relays will click while in use. Mount where such noise is acceptable. Mount the panel so that line-voltage wiring will be at least 6 feet (1.8 m) from audio or electronic equipment and its wiring.
Dimensions	See Fig. 1, pg. 172.
Construction	Enclosure: Painted (black) 16 US gauge steel. Cover: Painted (black) metal cover with ventilation holes. Cover is attached using four phillips-head screws.
Shipping Weight	HS72: 650 lbs. (295 kg) without packaging

# Specification Grade Dimming Panels (cont.)

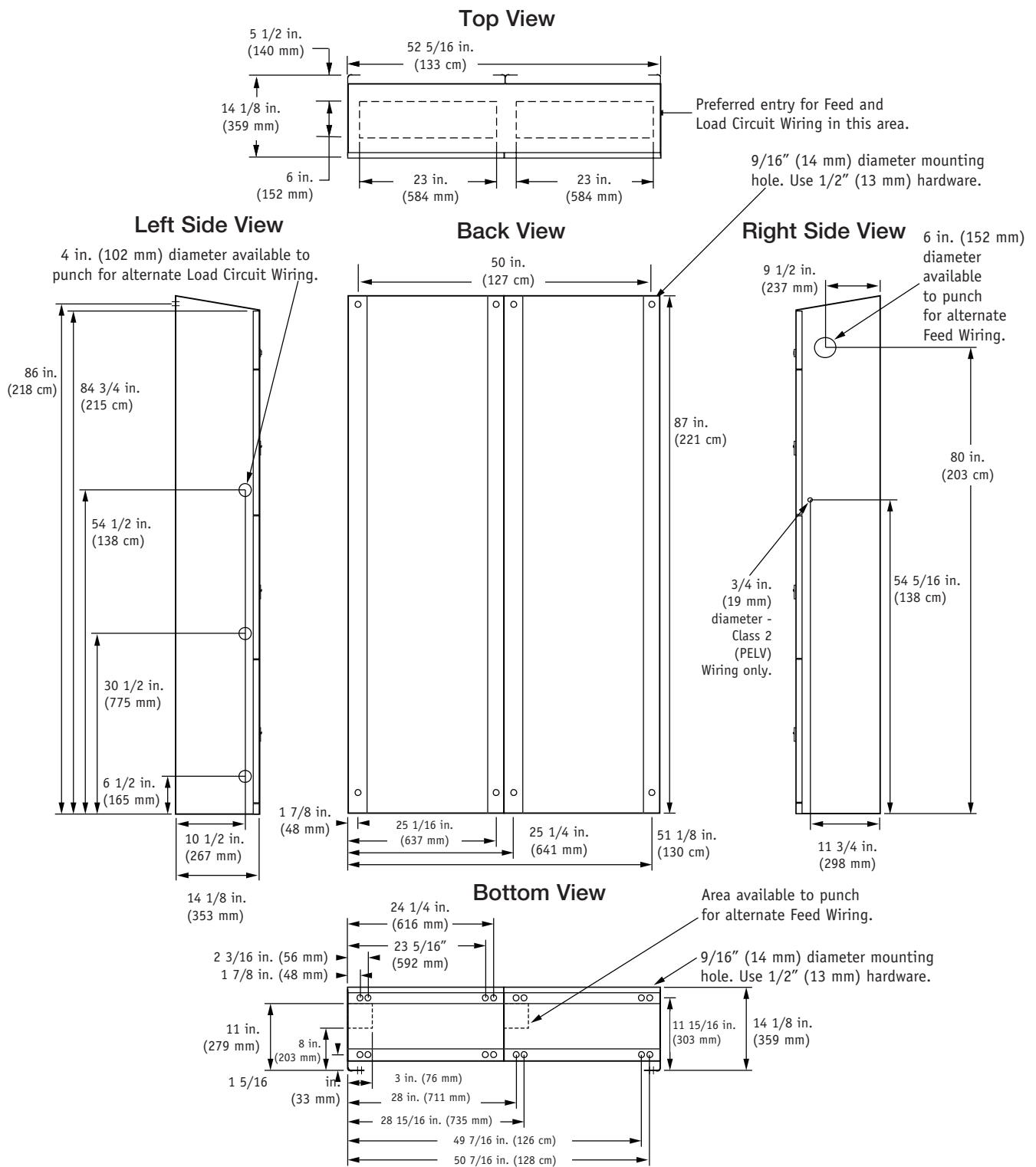


Figure 1 - HS72 Dimensions and Conduit Entry