

## SPECIFICATION SHEET : SHGD2-MID-4-100-L

This Is An Original Product From Fulham Co., Inc

**Description : Sun Horse electronic ballast developed for use with UV & tanning lamp applications**

**This Ballast Will Operate Following Lamps.**

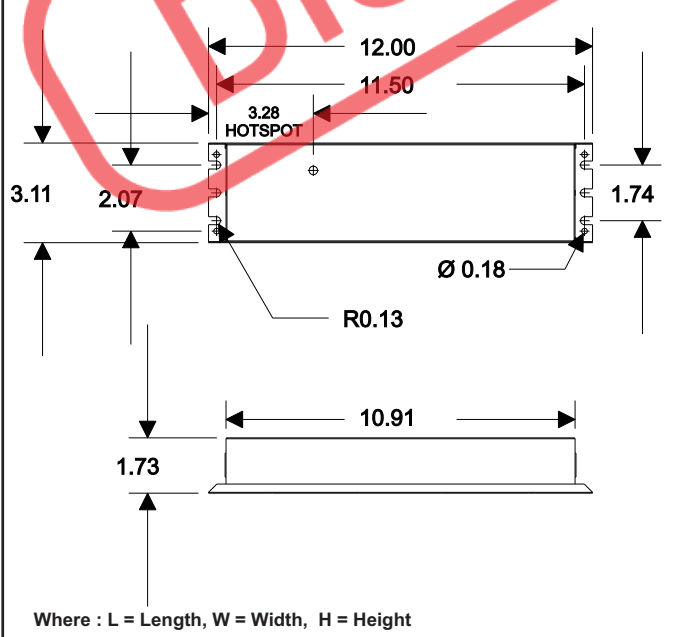


3 OR 4 X F59T12HO, F71T12HO, F72T12HO,  
F73T12HO

### ELECTRICAL DATA (208V APPLICATION)

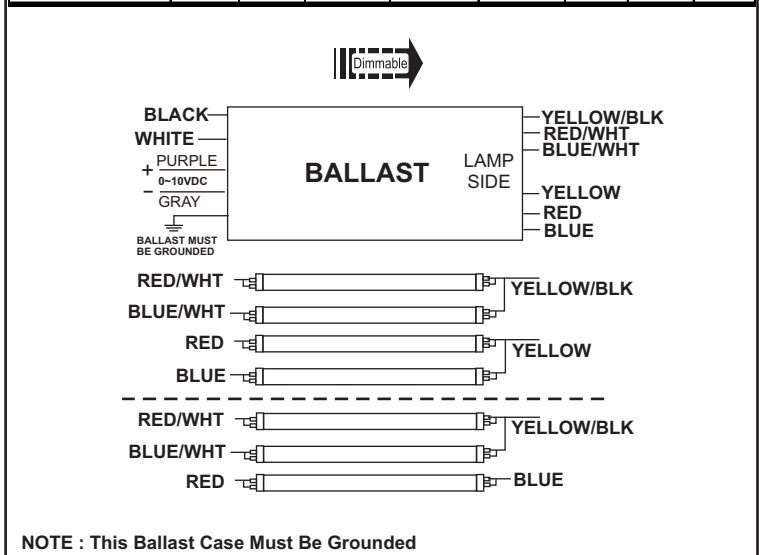
INPUT VOLT: 208V ± 10%, 50/60Hz							
LAMP WATTS/TYPE	F59T12HO	F71T12HO	F72T12HO	F73T12HO	-	-	-
LAMP RATED POWER	80W	100W	85W	100W			
LAMPS OPERATED	3						
INPUT WATTS	232	259	263	271			
LINE CURRENT:	1.13	1.26	1.27	1.32			
POWER FACTOR	0.98	0.99	0.99	0.99			
BALLAST FACTOR	0.9	0.8	1.0	0.9			
EFFICACY FACTOR	0.4	0.3	0.4	0.3			
OPERATING FREQUENCY	54KHz						
THD	< 10%						
CURRENT CRESS FACTOR	< 1.7						
EMI/RFI COMPLIANCE	FCC PART 18-A						
SOUND RATING	"A"						
BALLAST TYPE	INSTANT START						
VOLTAGE TRANSIENTS	ANSI C82.11 - 1993 / C62.41						
INHERENT THERMAL PROT.	YES						
MIN. OPERATING TEMP	0 °C ( 32 ° F )						
MAX. CASE TEMP	75 °C ( 167 ° F )						
DIMMING RANGE	100% TO 70%						
APPROVALS/CLASS	UL /cUL LISTED, CLASS " P ", 1 OUTDOOR, Class 2 Dimming Control						

### MECHANICAL DATA



### WIRING DIAGRAMS

WIRE	BLK	WHT	YEL/BLK	RED/WHT	BLU/WHT	YEL	RED	BLUE
LENGTH-INCHES	72.0"	72.0"	72.0"	72.0"	72.0"	72.0"	72.0"	72.0"



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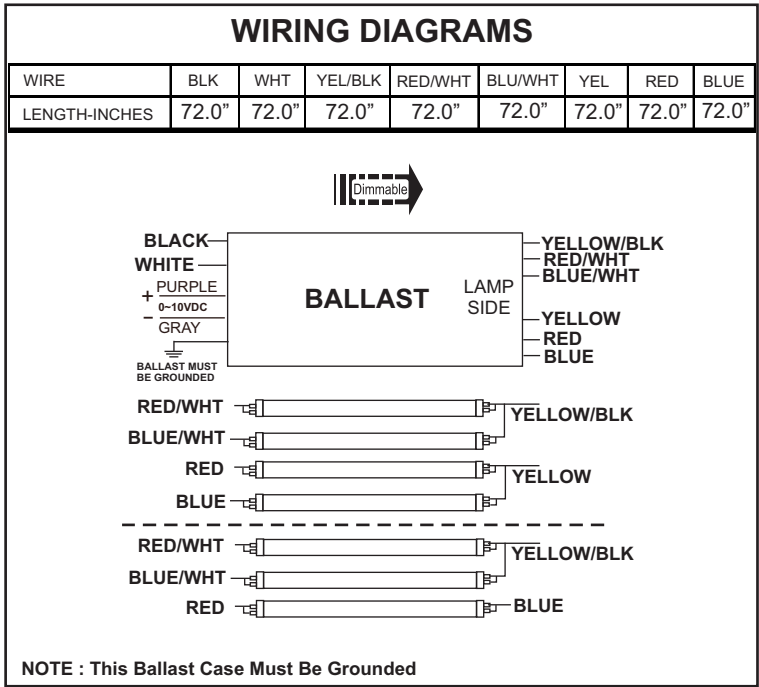
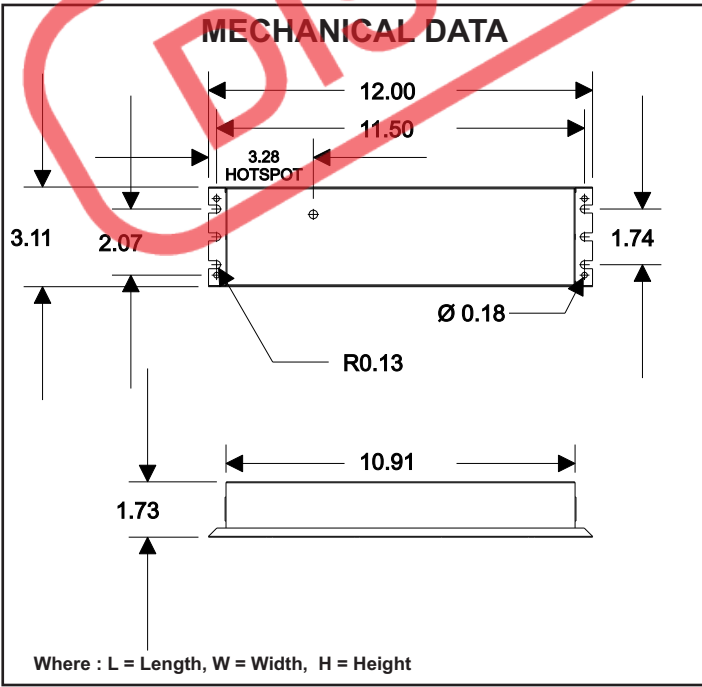


3 OR 4 X F59T12HO, F71T12HO, F72T12HO, F73T12HO

### ELECTRICAL DATA (208V APPLICATION)

INPUT VOLT: 208V ± 10%, 50/60Hz ,							
LAMP WATTS/TYPE	F59T12HO	F71T12HO	F72T12HO	F73T12HO	-	-	-
LAMP RATED POWER	80W	100W	85W	100W			
LAMPS OPERATED	4						
INPUT WATTS	302	334	340	355			
LINE CURRENT:	1.46	1.61	1.64	1.72			
POWER FACTOR	0.99	0.99	0.99	0.99			
BALLAST FACTOR	0.9	0.8	1.0	0.9			
EFFICACY FACTOR	0.3	0.2	0.3	0.2			
OPERATING FREQUENCY	54KHz						
THD	< 10%						
CURRENT CRESS FACTOR	< 1.7						
EMI/RFI COMPLIANCE	FCC PART 18-A						
SOUND RATING	"A"						
BALLAST TYPE	INSTANT START						
VOLTAGE TRANSIENTS	ANSI C82.11 - 1993 / C62.41						
INHERENT THERMAL PROT.	YES						
MIN. OPERATING TEMP	0 °C ( 32 ° F )						
MAX. CASE TEMP	75 °C ( 167 ° F )						
DIMMING RANGE	100% TO 70%						
APPROVALS/CLASS	UL/cUL LISTED, CLASS " P ", 1 OUTDOOR, Class 2 Dimming Control						

DISCONTINUED



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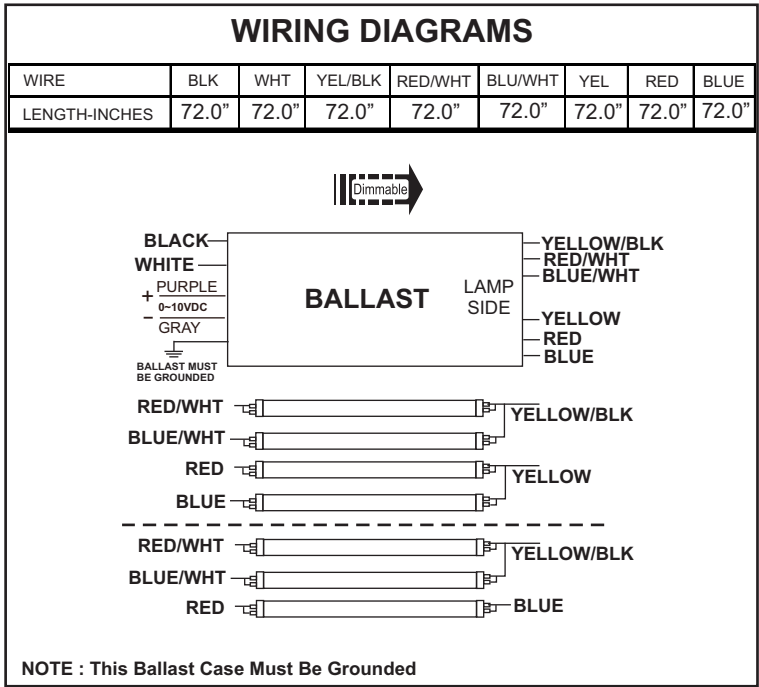
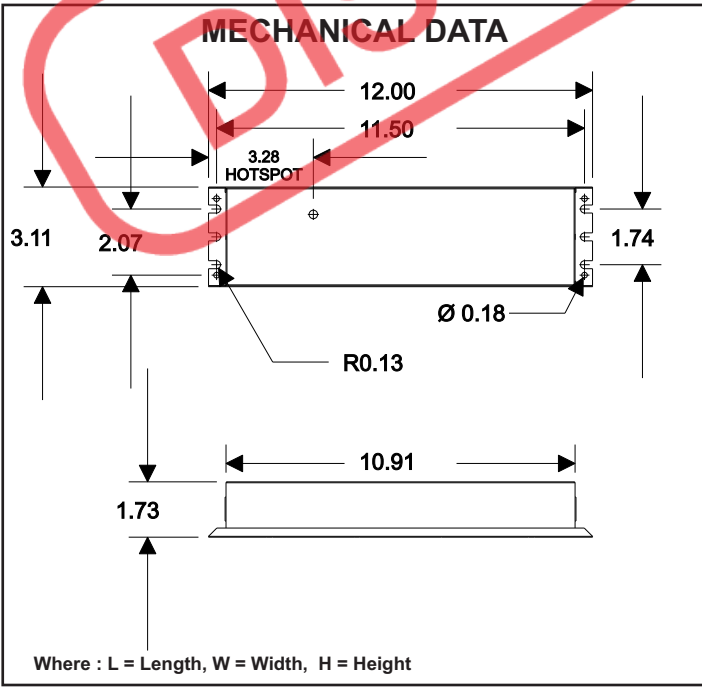
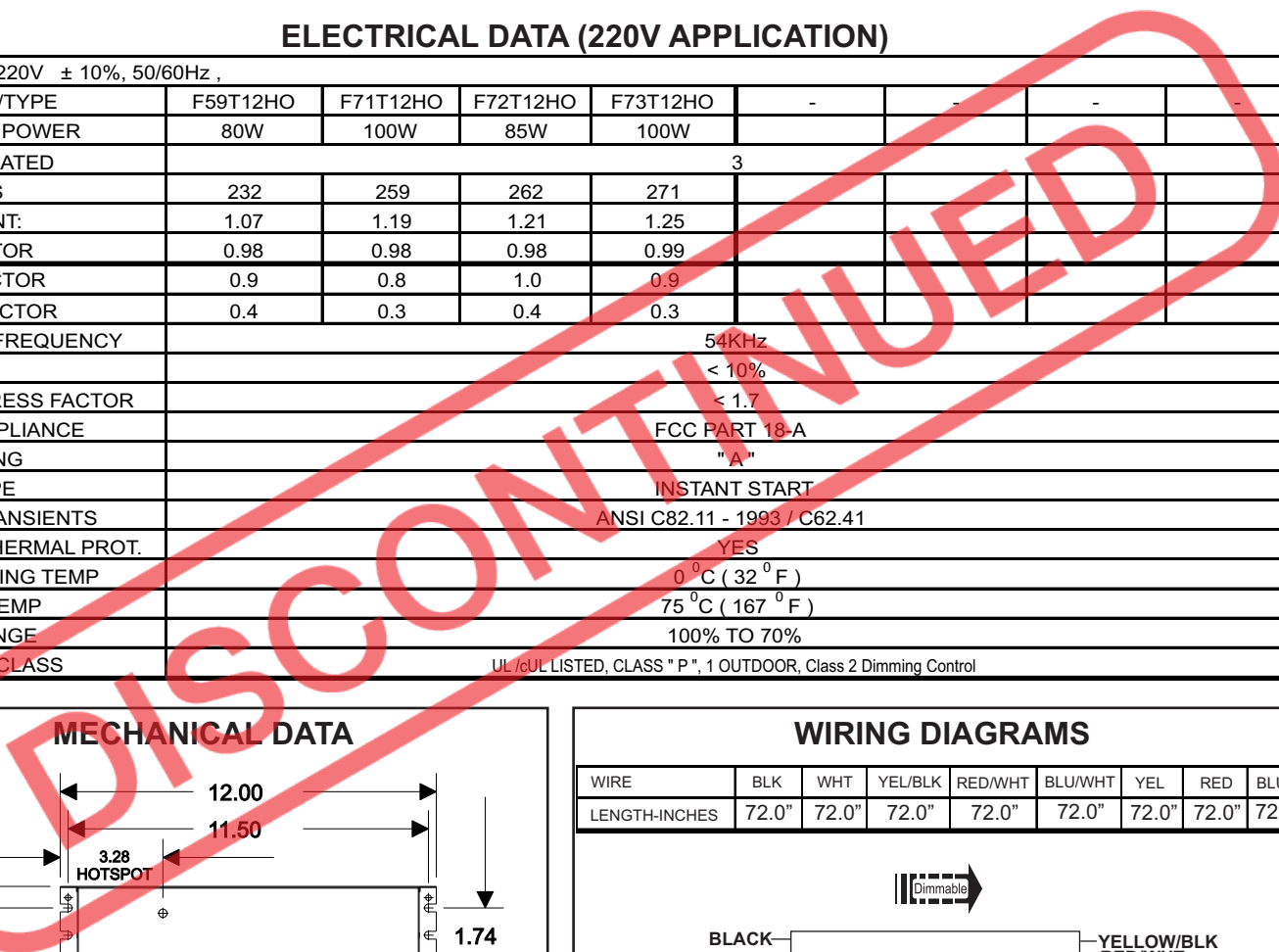
**This Ballast Will Operate Following Lamps.**



3 OR 4 X F59T12HO, F71T12HO, F72T12HO, F73T12HO

### ELECTRICAL DATA (220V APPLICATION)

INPUT VOLT: 220V ± 10%, 50/60Hz							
LAMP WATTS/TYPE	F59T12HO	F71T12HO	F72T12HO	F73T12HO	-	-	-
LAMP RATED POWER	80W	100W	85W	100W			
LAMPS OPERATED	3						
INPUT WATTS	232	259	262	271			
LINE CURRENT:	1.07	1.19	1.21	1.25			
POWER FACTOR	0.98	0.98	0.98	0.99			
BALLAST FACTOR	0.9	0.8	1.0	0.9			
EFFICACY FACTOR	0.4	0.3	0.4	0.3			
OPERATING FREQUENCY	54KHz						
THD	< 10%						
CURRENT CRESS FACTOR	< 1.7						
EMI/RFI COMPLIANCE	FCC PART 18-A						
SOUND RATING	"A"						
BALLAST TYPE	INSTANT START						
VOLTAGE TRANSIENTS	ANSI C82.11 - 1993 / C62.41						
INHERENT THERMAL PROT.	YES						
MIN. OPERATING TEMP	0 °C ( 32 ° F )						
MAX. CASE TEMP	75 °C ( 167 ° F )						
DIMMING RANGE	100% TO 70%						
APPROVALS/CLASS	UL /cUL LISTED, CLASS " P ", 1 OUTDOOR, Class 2 Dimming Control						



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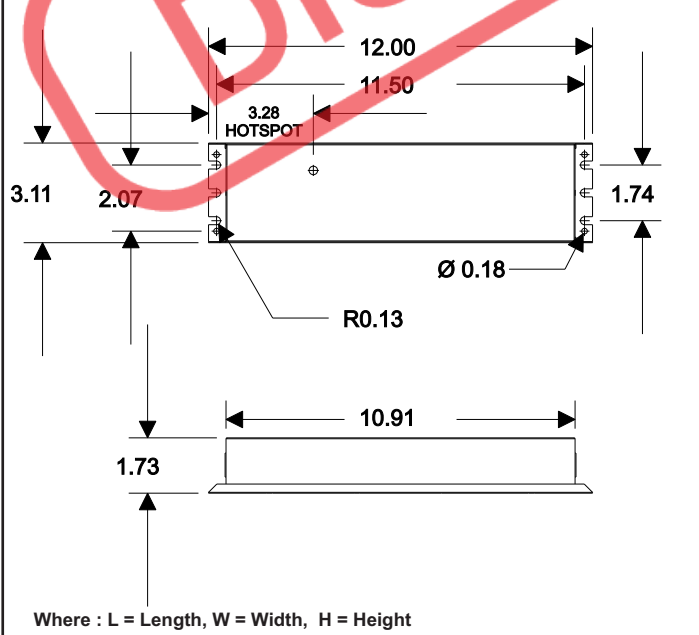


3 OR 4 X F59T12HO, F71T12HO, F72T12HO,  
F73T12HO

### ELECTRICAL DATA (220V APPLICATION)

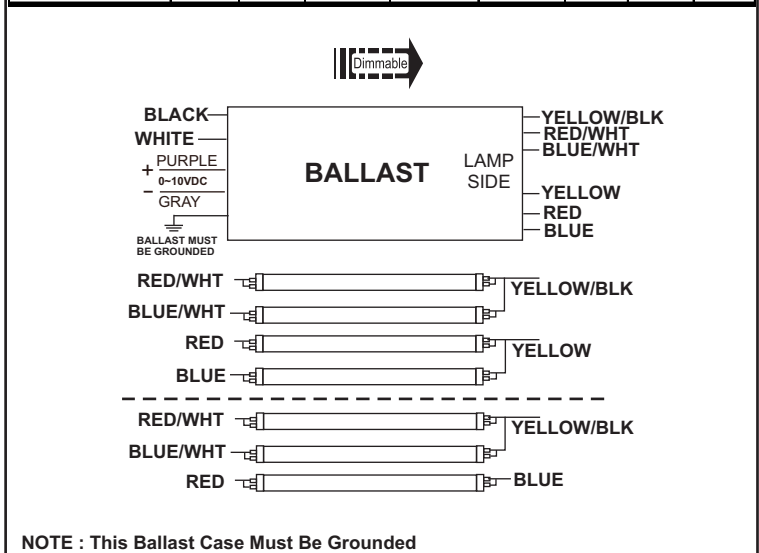
INPUT VOLT: 220V ± 10%, 50/60Hz,							
LAMP WATTS/TYPE	F59T12HO	F71T12HO	F72T12HO	F73T12HO	-	-	-
LAMP RATED POWER	80W	100W	85W	100W			
LAMPS OPERATED	4						
INPUT WATTS	302	334	339	354			
LINE CURRENT:	1.38	1.53	1.55	1.62			
POWER FACTOR	0.99	0.99	0.99	0.99			
BALLAST FACTOR	0.9	0.8	1.0	0.8			
EFFICACY FACTOR	0.3	0.2	0.3	0.2			
OPERATING FREQUENCY	54KHz						
THD	< 10%						
CURRENT CRESS FACTOR	< 1.7						
EMI/RFI COMPLIANCE	FCC PART 18-A						
SOUND RATING	"A"						
BALLAST TYPE	INSTANT START						
VOLTAGE TRANSIENTS	ANSI C82.11 - 1993 / C62.41						
INHERENT THERMAL PROT.	YES						
MIN. OPERATING TEMP	0 °C ( 32 ° F )						
MAX. CASE TEMP	75 °C ( 167 ° F )						
DIMMING RANGE	100% TO 70%						
APPROVALS/CLASS	UL/cUL LISTED, CLASS " P ", 1 OUTDOOR, Class 2 Dimming Control						

### MECHANICAL DATA



### WIRING DIAGRAMS

WIRE	BLK	WHT	YEL/BLK	RED/WHT	BLU/WHT	YEL	RED	BLUE
LENGTH-INCHES	72.0"	72.0"	72.0"	72.0"	72.0"	72.0"	72.0"	72.0"



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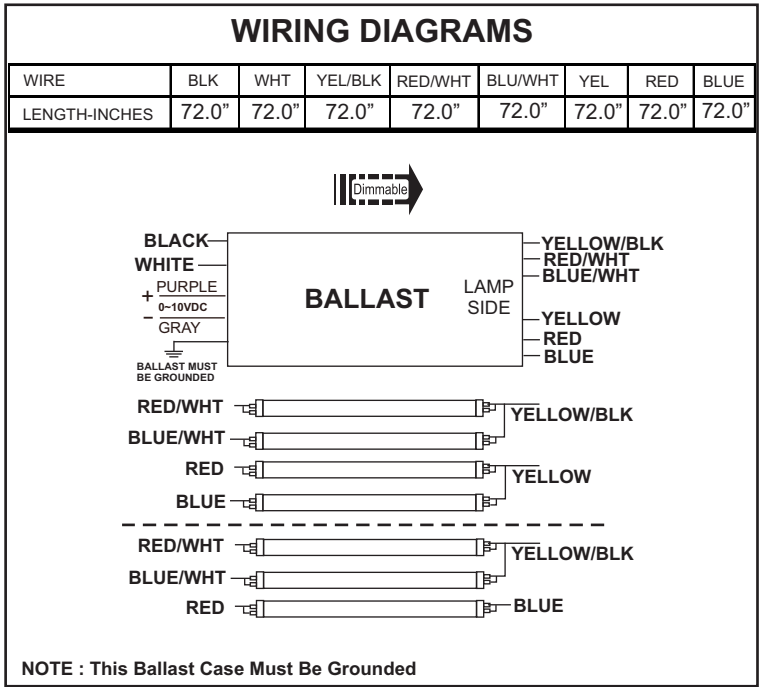
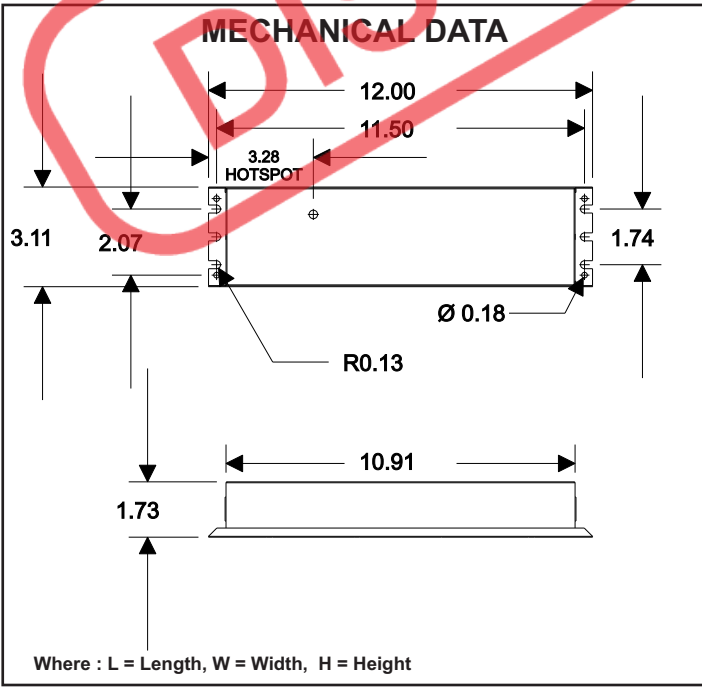
**This Ballast Will Operate Following Lamps.**



3 OR 4 X F59T12HO, F71T12HO, F72T12HO, F73T12HO

### ELECTRICAL DATA (230V APPLICATION)

INPUT VOLT: 230V ± 10%, 50/60Hz ,							
LAMP WATTS/TYPE	F59T12HO	F71T12HO	F72T12HO	F73T12HO	-	-	-
LAMP RATED POWER	80W	100W	85W	100W			
LAMPS OPERATED	3						
INPUT WATTS	231	259	262	270			
LINE CURRENT:	1.03	1.15	1.16	1.20			
POWER FACTOR	0.97	0.98	0.98	0.98			
BALLAST FACTOR	0.9	0.8	1.0	0.9			
EFFICACY FACTOR	0.4	0.3	0.4	0.3			
OPERATING FREQUENCY	54KHz						
THD	< 11%						
CURRENT CRESS FACTOR	< 1.7						
EMI/RFI COMPLIANCE	FCC PART 18-A						
SOUND RATING	" A "						
BALLAST TYPE	INSTANT START						
VOLTAGE TRANSIENTS	ANSI C82.11 - 1993 / C62.41						
INHERENT THERMAL PROT.	YES						
MIN. OPERATING TEMP	0 °C ( 32 ° F )						
MAX. CASE TEMP	75 °C ( 167 ° F )						
DIMMING RANGE	100% TO 70%						
APPROVALS/CLASS	UL /cUL LISTED, CLASS " P ", 1 OUTDOOR, Class 2 Dimming Control						



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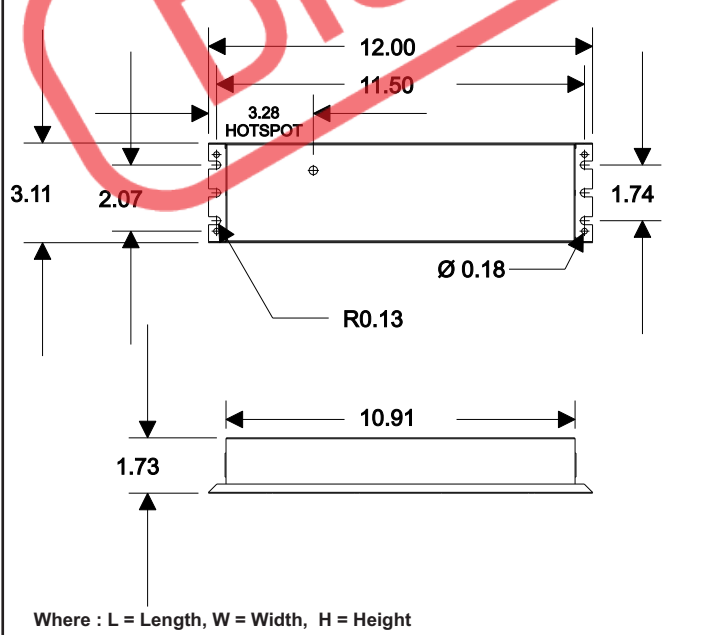


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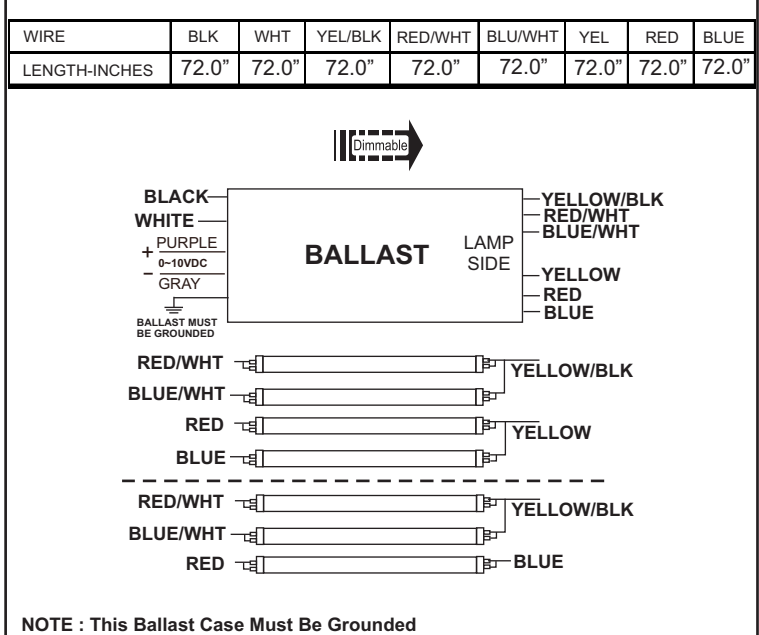
### ELECTRICAL DATA (230V APPLICATION)

INPUT VOLT: 230V ± 10%, 50/60Hz,							
LAMP WATTS/TYPE	F59T12HO	F71T12HO	F72T12HO	F73T12HO	-	-	-
LAMP RATED POWER	80W	100W	85W	100W			
LAMPS OPERATED	4						
INPUT WATTS	302	333	339	353			
LINE CURRENT:	1.33	1.46	1.49	1.55			
POWER FACTOR	0.99	0.99	0.99	0.99			
BALLAST FACTOR	0.9	0.8	1.0	0.8			
EFFICACY FACTOR	0.3	0.2	0.3	0.2			
OPERATING FREQUENCY	54KHz						
THD	< 10%						
CURRENT CRESS FACTOR	< 1.7						
EMI/RFI COMPLIANCE	FCC PART 18-A						
SOUND RATING	" A "						
BALLAST TYPE	INSTANT START						
VOLTAGE TRANSIENTS	ANSI C82.11 - 1993 / C62.41						
INHERENT THERMAL PROT.	YES						
MIN. OPERATING TEMP	0 °C ( 32 ° F )						
MAX. CASE TEMP	75 °C ( 167 ° F )						
DIMMING RANGE	100% TO 70%						
APPROVALS/CLASS	UL /cUL LISTED, CLASS " P ", 1 OUTDOOR, Class 2 Dimming Control						

### MECHANICAL DATA



### WIRING DIAGRAMS



NOTE : This Ballast Case Must Be Grounded

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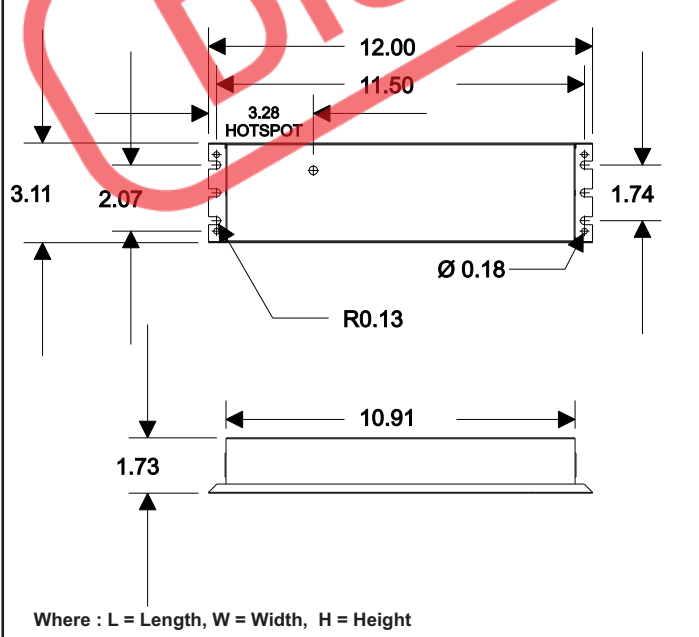


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F73T12HO

### ELECTRICAL DATA (240V APPLICATION)

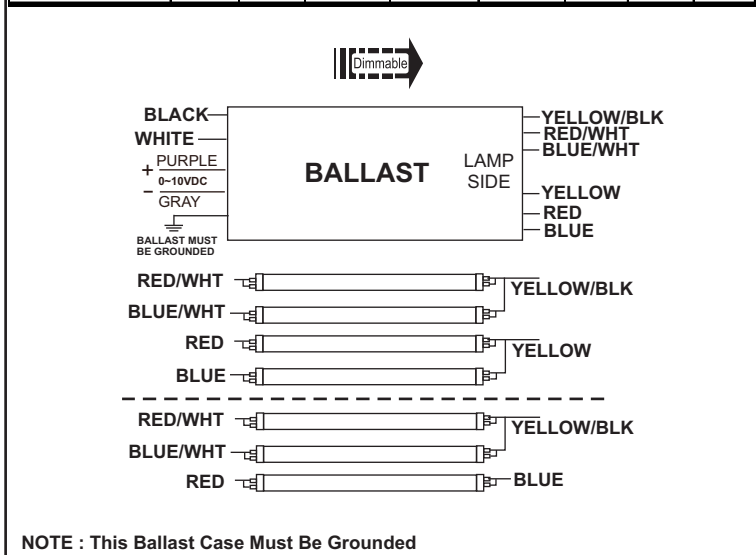
INPUT VOLT: 240V ± 10%, 50/60Hz,							
LAMP WATTS/TYPE	F59T12HO	F71T12HO	F72T12HO	F73T12HO	-	-	-
LAMP RATED POWER	80W	100W	85W	100W			
LAMPS OPERATED	4						
INPUT WATTS	303	333	339	351			
LINE CURRENT:	1.28	1.41	1.43	1.48			
POWER FACTOR	0.98	0.99	0.99	0.99			
BALLAST FACTOR	0.9	0.8	1.0	0.8			
EFFICACY FACTOR	0.3	0.2	0.3	0.2			
OPERATING FREQUENCY	54KHz						
THD	< 10%						
CURRENT CRESS FACTOR	< 1.7						
EMI/RFI COMPLIANCE	FCC PART 18-A						
SOUND RATING	"A"						
BALLAST TYPE	INSTANT START						
VOLTAGE TRANSIENTS	ANSI C82.11 - 1993 / C62.41						
INHERENT THERMAL PROT.	YES						
MIN. OPERATING TEMP	0 °C ( 32 ° F )						
MAX. CASE TEMP	75 °C ( 167 ° F )						
DIMMING RANGE	100% TO 70%						
APPROVALS/CLASS	UL/cUL LISTED, CLASS " P ", 1 OUTDOOR, Class 2 Dimming Control						

### MECHANICAL DATA



### WIRING DIAGRAMS

WIRE	BLK	WHT	YEL/BLK	RED/WHT	BLU/WHT	YEL	RED	BLUE
LENGTH-INCHES	72.0"	72.0"	72.0"	72.0"	72.0"	72.0"	72.0"	72.0"



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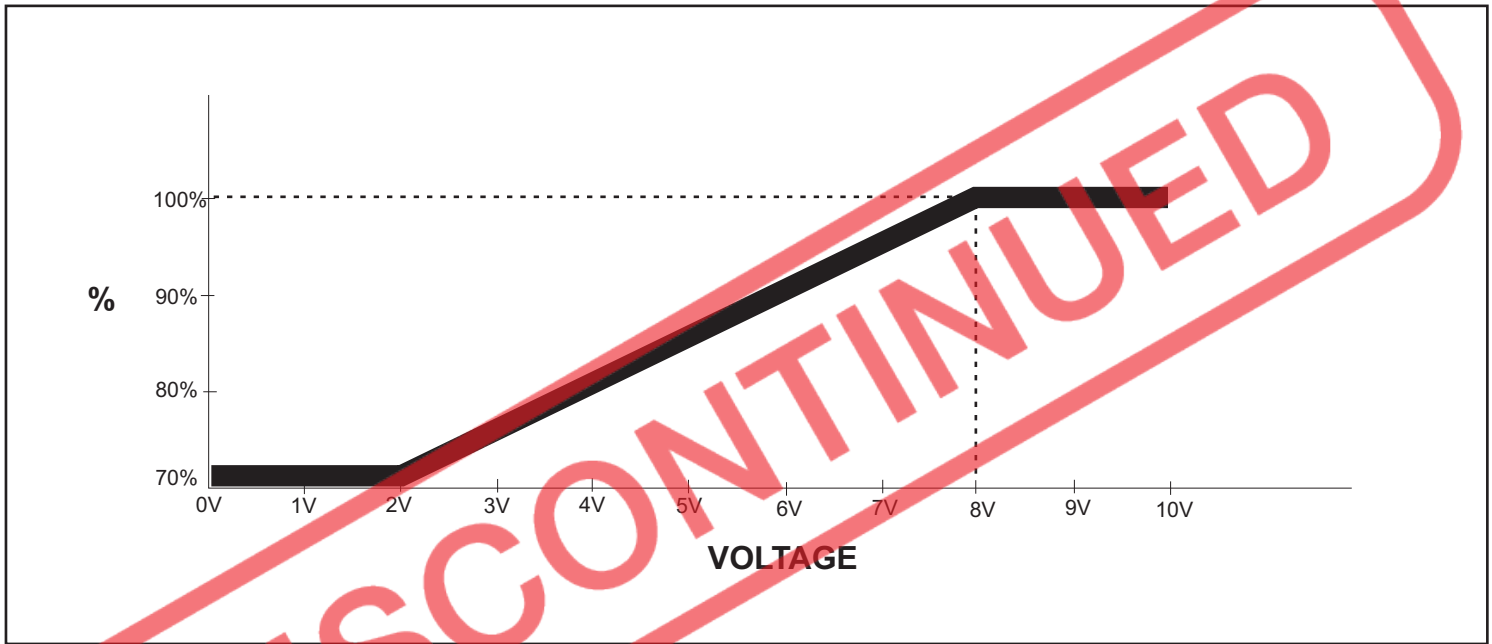
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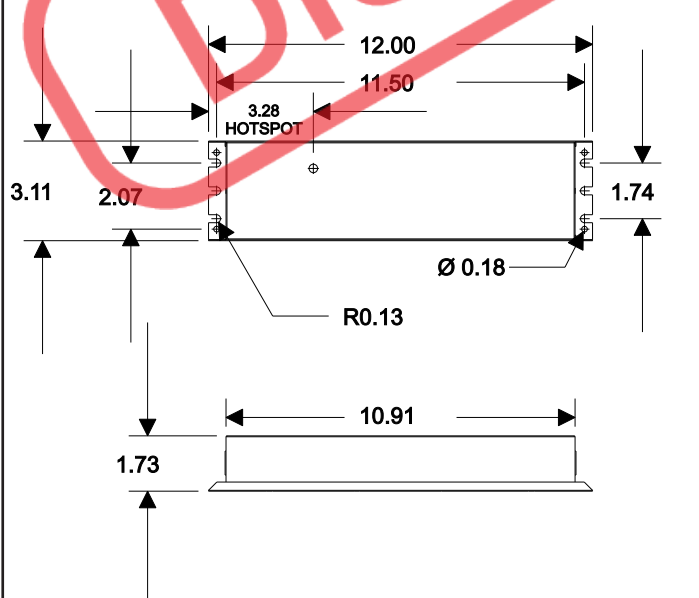


3 OR 4 X F59T12HO, F71T12HO, F72T12HO, F73T12HO

**TYPICAL DIMMING GRAPH**



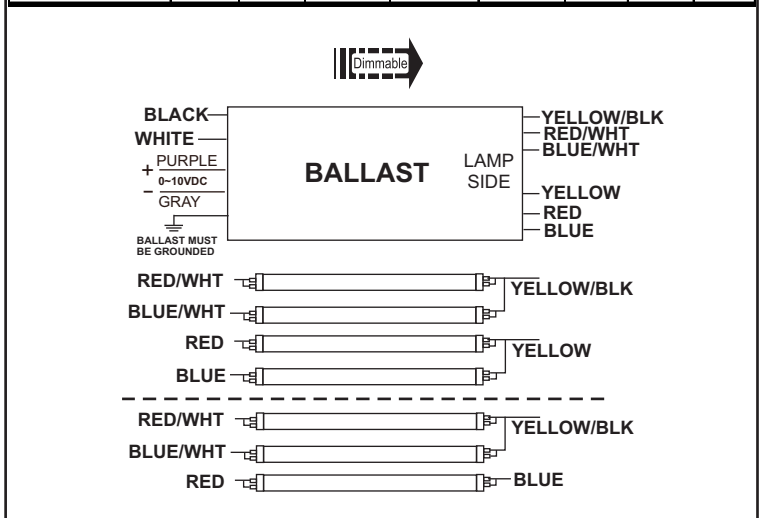
**MECHANICAL DATA**



Where : L = Length, W = Width, H = Height

**WIRING DIAGRAMS**

WIRE	BLK	WHT	YEL/BLK	RED/WHT	BLU/WHT	YEL	RED	BLUE
LENGTH-INCHES	72.0"	72.0"	72.0"	72.0"	72.0"	72.0"	72.0"	72.0"



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