

PSY454T5MVEL

Ballast Type: Electronic
 Input Voltage: 120 thru 277VAC $\pm 10\%$
 Input Frequency: 47-63 Hz

Starting Method: Program Start
 Lamp Connection: Series/Parallel
 Unit Color: Black

Unit Weight: 2.8 lb
 Carton Quantity: 6
 Skid Quantity: 600

ELECTRICAL SPECIFICATION:

Line Voltage (V)	Lamp Type	Lamp Watts	No. of Lamps	Line Current (A)	Input Power (W)	Power Factor	Max Current THD (%)	Current Crest Factor	Ballast Factor	Wiring Diagram	B.E.F.
120	F54T5HO	54	1	0.50	60	≥ 0.99	≤ 10	≤ 1.7	1.03	086	1.72
277				0.24	60	≥ 0.90					
120	F54T5HO	54	2	0.98	118	≥ 0.99	≤ 10	≤ 1.7	1.00	087	0.85
277				0.42	115	≥ 0.96				088	0.87
120	F54T5HO	54	3	1.48	175	≥ 0.99	≤ 10	≤ 1.5	1.03	086	0.59
277				0.64	170	≥ 0.97					0.61
120	F54T5HO	54	4	1.97	234	≥ 0.99	≤ 10	≤ 1.7	1.00	088	0.43
277				0.84	227	≥ 0.97					0.44
120	F54T5HO/ES/51	51	1	0.45	54	≥ 0.99	≤ 10	≤ 1.7	1.02	086	1.89
277				0.22	54	≥ 0.89	≤ 12				
120	F54T5HO/ES/51	51	2	0.88	108	≥ 0.99	≤ 10	≤ 1.7	0.98	087	0.91
277				0.38	106	≥ 0.97				088	0.92
120	F54T5HO/ES/51	51	3	1.38	164	≥ 0.99	≤ 10	≤ 1.7	0.99	086	0.60
277				0.59	162	≥ 0.97					0.61
120	F54T5HO/ES/51	51	4	1.82	216	≥ 0.99	≤ 10	≤ 1.7	0.98	088	0.45
277				0.78	212	≥ 0.98					0.46
120	F54T5HO/ES/49	49	1	0.46	55	≥ 0.99	≤ 10	≤ 1.7	1.02	086	1.85
277				0.22	55	≥ 0.89	≤ 12				
120	F54T5HO/ES/49	49	2	0.85	104	≥ 0.99	≤ 10	≤ 1.7	0.98	087	0.94
277				0.36	102	≥ 0.96				088	0.96
120	F54T5HO/ES/49	49	3	1.32	157	≥ 0.99	≤ 10	≤ 1.7	0.99	086	0.63
277				0.56	155	≥ 0.97					0.64
120	F54T5HO/ES/49	49	4	1.76	208	≥ 0.99	≤ 10	≤ 1.7	0.98	088	0.47
277				0.75	204	≥ 0.98					0.48
120	F54T5HO/ES/47	47	1	0.42	51	≥ 0.99	≤ 10	≤ 1.7	1.03	086	2.02
277				0.21	51	≥ 0.85	≤ 12				
120	F54T5HO/ES/47	47	2	0.85	102	≥ 0.99	≤ 10	≤ 1.7	1.00	087	0.98
277				0.38	100	≥ 0.96				088	1.00
120	F54T5HO/ES/47	47	3	1.29	154	≥ 0.99	≤ 10	≤ 1.7	1.01	086	0.65
277				0.57	152	≥ 0.96					0.66
120	F54T5HO/ES/47	47	4	1.71	204	≥ 0.99	≤ 10	≤ 1.7	1.00	088	0.49
277				0.74	200	≥ 0.98					0.50
120	F39T5HO	39	1	0.38	46	≥ 0.99	≤ 10	≤ 1.7	1.18	086	2.56
277				0.19	46	≥ 0.85	≤ 15				
120	F39T5HO	39	2	0.81	97	≥ 0.99	≤ 10	≤ 1.7	1.13	087	1.16
277				0.35	94	≥ 0.95				088	1.2
120	F39T5HO	39	3	1.24	149	≥ 0.99	≤ 10	≤ 1.7	1.15	086	0.77
277				0.54	146	≥ 0.97					0.79
120	F39T5HO	39	4	1.62	193	≥ 0.99	≤ 10	≤ 1.7	1.13	088	0.59
277				0.70	189	≥ 0.98					0.60
120	FT55W/2G11/RS	55	1	0.45	54	≥ 0.93	≤ 10	≤ 1.7	0.93	086	1.72
277				0.23	54	≥ 0.93	≤ 12				
120	FT55W/2G11/RS	55	2	0.94	112	≥ 0.99	≤ 10	≤ 1.7	0.91	087	0.81
277				0.41	110	≥ 0.96				088	0.83
120	FT55W/2G11/RS	55	3	1.42	170	≥ 0.99	≤ 10	≤ 1.7	0.93	086	0.55
277				0.61	166	≥ 0.97					0.56
120	FT55W/2G11/RS	55	4	1.88	224	≥ 0.99	≤ 10	≤ 1.7	0.91	088	0.40
277				0.80	220	≥ 0.97					0.41

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120	FT50W/2G11/RS	50	1	0.48	57	≥ 0.99	≤ 10	≤ 1.7	1.05	086	1.84
277				0.23	57	≥ 0.89	≤ 12				
120	FT50W/2G11/RS	50	2	0.96	114	≥ 0.99	≤ 10	≤ 1.7	1.06	087	0.93
277				0.41	111	≥ 0.96					
120	FT50W/2G11/RS	50	3	1.44	172	≥ 0.99	≤ 10	≤ 1.7	1.05	086	0.61
277				0.62	167	≥ 0.97					
120	FT50W/2G11/RS	50	4	1.89	226	≥ 0.99	≤ 10	≤ 1.7	1.04	088	0.46
277				0.82	222	≥ 0.98					
120	FT36W/2G11	36	1	0.35	42	≥ 0.98	≤ 10	≤ 1.7	1.05	086	2.50
277				0.18	42	≥ 0.84	≤ 15				
120	FT36W/2G11	36	2	0.68	83	≥ 0.99	≤ 10	≤ 1.7	1.06	087	1.28
277				0.33	82	≥ 0.94					
120	FT36W/2G11	36	3	1.06	128	≥ 0.99	≤ 10	≤ 1.7	1.05	086	0.82
277				0.48	126	≥ 0.97					
120	FT36W/2G11	36	4	1.42	168	≥ 0.99	≤ 10	≤ 1.7	1.04	088	0.62
277				0.65	165	≥ 0.96					
120	F58T8	58	1	0.45	54	≥ 0.99	≤ 10	≤ 1.7	0.98	086	1.81
277				0.22	54	≥ 0.89	≤ 12				
120	F58T8	58	2	0.89	105	≥ 0.99	≤ 10	≤ 1.7	0.92	087	0.88
277				0.41	103	≥ 0.95					
120	F58T8	58	3	1.33	159	≥ 0.99	≤ 10	≤ 1.7	0.95	086	0.59
277				0.58	156	≥ 0.97					
120	F58T8	58	4	1.77	210	≥ 0.99	≤ 10	≤ 1.7	0.92	088	0.43
277				0.78	207	≥ 0.97					
120	FC12T5	55	1	0.44	52	≥ 0.99	≤ 10	≤ 1.7	0.86	088	1.65
277				0.18	52	≥ 0.85	≤ 12				
120	FC12T5	55	2	0.85	102	≥ 0.99	≤ 10	≤ 1.7	0.83	087	0.81
277				0.36	99	≥ 0.96					
120	FC12T5	55	3	1.30	156	≥ 0.99	≤ 10	≤ 1.7	0.85	086	0.54
277				0.55	152	≥ 0.96					
120	FC12T5	55	4	1.72	206	≥ 0.99	≤ 10	≤ 1.7	0.83	088	0.40
277				0.73	202	≥ 0.97					

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PERFORMANCE:

- Electronic ballast
- Program start
- Series/Parallel operation
- High power factor
- Encased & potted
- Sound rated A
- End of Lamp Life protection per ANSI C82.11
- Internal surge protection
- Meets FCC Part 18 (Class A) for EMI and RFI non-consumer limits
- Meets ANSI standard C82.11 for ballast requirements
- Meets ANSI standard C62.41 for transient protection

APPLICATION:

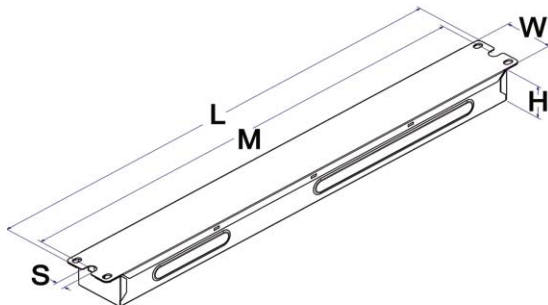
- Maximum case temperature: 194°F/90°C
- Maximum ambient temperature: 131°F/55°C
- Minimum starting temperature: 0°F/-18°C
- Lamp starts: >50,000 starts
- Remote mounting: 20 ft.

SAFETY:

- UL/935 (Class P, Type HL, Type 1 outdoor) listed
- cUL (CSA 22.2) listed
- RoHS Compliant
- No PCB's

CASE STYLE:

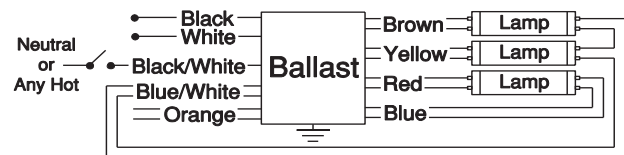
31



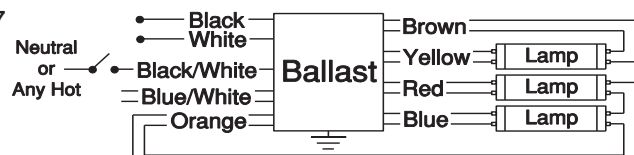
H	W	L	M	S
1 3/16	1 23/32	16 3/4	16 5/16	5/16
1.19	1.72	16.75	16.31	0.31
3.02 cm	4.37 cm	42.55 cm	41.43 cm	0.79 cm

WIRING DIAGRAM:

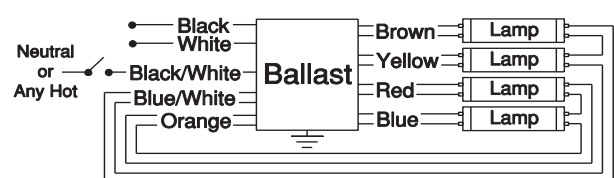
086



087



088



Lead Lengths: Tolerance +2.00 -1.00, strip 0.375", Tolerance ± 0.06

Standard: • Blk: (2) 20" • Orange: (2) 49" • Yel: (2) 32"
 • Wht: (2) 20" • Blu/Wht: (2) 49" • Red: (2) 32"
 • Blk/Wht: (2) 20" • Brn: (2) 32"
 • Blu: (2) 32"

WARRANTY:

Robertson Worldwide warrants to the purchaser that this ballast will be free from defects in material or workmanship for a period of five years for operation at a maximum case temperature of 75°C and a period of three years for operation at a maximum case temperature of 90°C from date of manufacture when properly installed and under normal conditions of use.