

## EMT-150-HL

### Magnetic

Outdoor Black Powder Coated Steel Enclosure

Multi Tap: **12-15VAC**

Total Wattage: **150W max**

Input Voltage: **120V 60Hz**

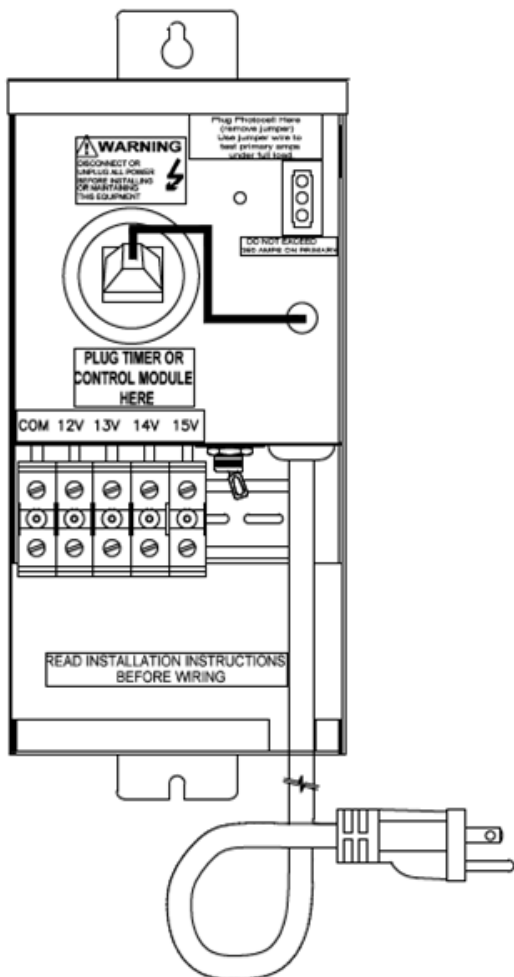


Conforms to UL STD. 1838  
Certified to CSA  
STD. C22.2 № 250.0, 250.7

### Installation Instruction for



- \* Read instruction completely before installation.
- \* Turn off electricity before wiring.
- \* Only qualified personal should install the unit.
- \* Installation must comply with the NEC.
- \* Ensure the unit has input, output voltage and output wattage proper for your application.



### Mounting

The transformer must be mounted in a free flow air space for proper ventilation.

The maximum ambient temperature should not exceed 50 deg. C (110 deg. F)

Use the keyholes bracket to mount transformer vertically with wire compartment pointing down.

### Input Connection

This transformer configured with line cord for easy input connection by plugging it into 120V 60Hz receptacle. The max. input current at fully loaded transformer should not exceed 0.35Amps for 40W, 0.63Amps for 75W, 1.25Amps for 150W, 3 Amps for 300W, 5Amps. For 600W, 7.5Amps for 900W and 10Amps for 1200W Transformers., check it by Ampere meter clamp on wire loop.

### Output Connection

This unit has one com. and 4 taps: 12V, 13V, 14V, and 15V. Don't short the one tap to another.

You can connect your lights to any tap in different combinations. The total wattage should not exceed 300W on any tap and on the com. For example: for 15V tap it's 300W divided by 15V=20Amps. 20Amps. Multiply by 12V=240W, so your lights total wattage on 15V tap 240W max.

Always connect your lights to 12V tap first, check voltage on the lights, move to higher tap if the voltage less than 10.5V. We recommend max. voltage 11.5V. Make sure all your connection are very tight to avoid terminal block melting and wire burning. For voltage drop control see chart below.

WIRE VOLTAGE DROP\*

Wattage	11V output				12V output				13V output				14V output				15V output			
	16 AWG	14 AWG	12 AWG	10 AWG	16 AWG	14 AWG	12 AWG	10 AWG	16 AWG	14 AWG	12 AWG	10 AWG	16 AWG	14 AWG	12 AWG	10 AWG	16 AWG	14 AWG	12 AWG	10 AWG
20W	43	68	108	170	128	203	324	511	213	338	540	850	298	474	757	1192	383	609	973	1533
40W	21	34	54	85	63.9	101	162	255	106	169	270	426	149	237	378	596	192	305	487	767
50W	17	23	36	57	51	81	129	204	85	135	216	340	120	190	303	477	153	244	390	613
60W	14	22	36	57	42	67	108	170	71	113	180	284	99	158	252	397	127	203	324	511
75W	11	18	29	45	34	54	86	136	57	90	144	227	79	126	208	318	102	162	259	409
100W	8.5	11	18	28	25	40	65	102	42	68	108	170	59	95	151	238	76	122	195	307
150W	6	8	12	19	17	27	43	68	28	45	72	114	40	63	101	159	51	81	130	204
200W	N/A	6	9	14	N/A	20	32	51	N/A	34	54	85	N/A	47	75	119	N/A	61	97	153
300W	N/A	N/A	7.2	11	N/A	N/A	21	34	N/A	N/A	36	57	N/A	N/A	50	79	N/A	N/A	65	102

\* Note: Min. Volts on the end of the run is 10.5V @ 20°C; Distance in FT.

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