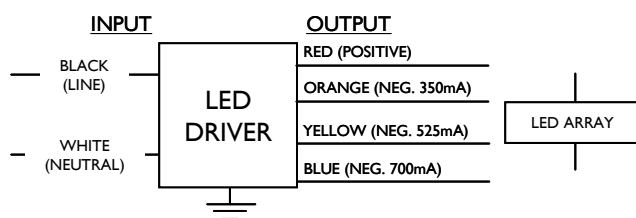


Electrical Specifications

LEDINTA700C140F30	
Brand Name	XITANIUM
Description	100W .7/.53/.35A
Input Voltage	120~277
Input Frequency	50/60Hz
RoHS	Yes
Approbations	UL, CSA
Status	Active

Output Power (W)	Output Voltage (V)	Output Current (A)	Efficiency wrt Output Voltage	Tcase Max	Input Current at 120V (A)	Max. Input Power (W)	Inrush Current (A _{pld} /μs)	Max. THD (%)	Power Factor at 120V	Surge Protection (KV)	Weight (Lbs)	Envir. Protection Rating
100	60~140	0.70	90% V _o >105V 87% V _o >60V	80°C	1.04	125	278/400	20	0.99	2.5	2.8/1270	UL Dry & Damp
75		0.53	89% V _o >105V 85% V _o >60V		0.78	94						
50		0.35	87% V _o >105V 82% V _o >60V		0.53	64						

Wiring Diagram



Input and output use lead-wires.
Lead-wires are 18AWG 105C/600V solid copper.

Standard Lead Length

	in.	cm.
Black	8	20
White	8	20
Blue	8	20
Red	8	20
Orange	8	20
Yellow	8	20

Maximum Wiring Distance (feet) –at full load:

Wire Size AWG)	@ 0.35A	@ 0.53A	@ 0.7A
26	16	12	8
24	26	20	13
22	43	32	21
20	68	51	34
18	108	81	54
16	170	128	85
14	275	206	137
12	420	315	210
10	714	536	357

Enclosure



	in. (mm)
Case Length	8.38 (211.1)
Case Width	2.35 (59.1)
Case Height	1.47 (37.1)
Mounting Length	9.0 (226.2)
Mounting Width	1.7 (42.9)
Overall Length	9.54 (240.5)



E321253



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Revised 04/18/2012

PHILIPS LIGHTING N.A.

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Installation & Application Notes:

Section I – Physical Characteristics

- 1.1 LED Driver shall be installed inside an electrical enclosure
- 1.2 Wiring inside electrical enclosure shall comply with 600V/105°C rating or higher.

Section II – Performance

- 2.1 LED Driver complies with UL standard UL1012.
- 2.2 LED Driver has Class A sound rating.
- 2.3 LED Driver has a minimum operating ambient temperature of -40°C.
- 2.4 LED Driver has a 400 maximum switching cycle between -40°C to -20°C.
- 2.5 LED Driver has a life expectancy of 50,000 hours at Tcase of ≤ 75°C.
- 2.6 LED Driver has a life expectancy of 100,000 hours at Tcase of ≤ 65°C.
- 2.7 LED Driver has a typical self rise of 25°C at maximum load in open air without heat sink.
- 2.8 LED Driver maximum allowable case temperature is 80°C – see product label for measurement location.
- 2.9 LED Driver reduces output power to LEDs if its maximum allowable case temperature is exceeded.
- 2.10 LED Driver has a failure rate of ≤ 0.01% per 1,000 hours.
- 2.11 LED Driver tolerates sustained open circuit and short circuit output conditions without damage.
- 2.12 LED Driver complies with the requirements of the Federal Communications Commission (FCC) rules and regulations, Title 47 CFR Part 15 Non-Consumer (Class A).

Section III – UL Conditions of Acceptability (File E321253)

When installed in the end-use equipment, the following are among the considerations to be made:

- 3.1 The equipment shall be installed in compliance with the enclosure, mounting, spacing, casualty and segregation requirements of the ultimate application.
- 3.2 Consideration should be given to measuring the temperatures on electronic components of power circuits and transformer windings when the unit is installed in the end-use equipment based upon mounting orientation, operating ambient and ventilation. All transformers and inductors L2 and L5 employ Class 130(B) insulation.
- 3.3 The equipment has been judged on the basis of the required spacing in the 7th Edition of the Standard for Power Units other than Class 2, UL1012, Par. 34.1 and Table 34.1 which would cover the component itself if submitted for unrestricted Listing. The Driver is asphalt potted.
- 3.4 For model LEDINTA700C140F30: only one output mode should be used at one time.
- 3.5 The unit was tested with a LED array as a load, which represents the end use load. Each LED assembly consisted of 20 LEDs in series @ 1 to 1.2 watt per LED, 6 LED assemblies provided in parallel, for a maximum load of 150 W. Consideration shall be given to the need to re-conduct tests based upon a different end-use load.
- 3.6 The temperature test for Model LEDINTA700C140CF30 was conducted in an ambient of 60°C. See the following table for case temperatures on this Model. (Model LEDINTA700C140CF30 was covered by model LEDINTA0700C210. However, the construction of model LEDINTA0700C210 was revised and also was moved to Volume 1, Section 2).

Model No.	Input Voltage, Hz	t _c , °C	Ambient, °C
*LEDINTA700C140CF30	120, 60 (Horizontal)	80	59
	277, 60 (Horizontal)	80	60

- 3.7 The output of the unit is not relying on the transformer's insulation system.

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Status	Active

Revision History:

Rev No.	Date	Description	Approval	Remarks
1.1	01/13/2012	* Add Envir. Protection Rating	N.T.	
1.2	02/27/2012	*Modify Part # (Remove Dashes)	N.T.	
1.3	04/09/2012	*Add Installation & Application Notes: Section II – 2.4: Max Switching Cycles	N.T.	
1.4	04/18/2012	* Add Approbations: UL,CSA	N.T.	

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