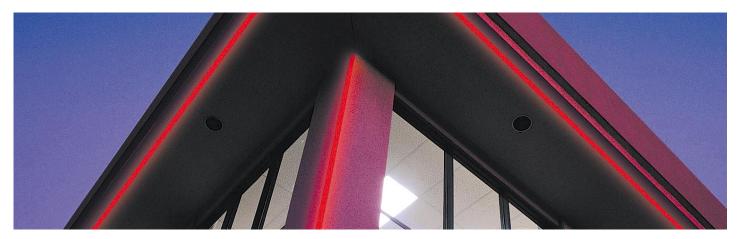




350mA and 700mA Constant Current Output



These drivers are included in the i-Xitanium (illumination) segment of the Xitanium family of products.

The 350mA and 700mA i-Xitanium Constant Current Output drivers provide the constant DC current output required to enhance the long life and optimum operation of high brightness LEDs.

Xitanium™ Drivers have an operating life matching that of the LEDs.

Features Slim housing, small Size (132x30x22 mm)	Benefits Provides freedom (flexibility) to designers; Support spatial unobtrusiveness of LEDs.
Meet approbation requirements (UL, CSA, FCC)	It is a hazard free product; It can be installed in practically any location.
DC constant current output	It can operate any LED lamp design the customer is developing or already marketing. No binning of LEDs results in cost savings.
Reliability	Drivers last as long as LEDs (≥ 50,000 hrs). 5 years warranty (similar to ballasts).
Power Efficiency	Optimization of the usage of the total system power; Customer pays for the power required and no more (optimized cost of ownership—COO); Power losses (up to 40% of total power) saved by this operation mode.



Compliant with Luxeon™ Power Light Sources

Selection Guide

Part Number Description

LED120A0700C24F 120V/17W/0.7A Xitanium LED Driver 120V/12W/0.35A Xitanium LED Driver LED120A0350C33F

Note:

1. Drivers work with all colors of standard and custom Luxeon™ Power Light Sources.

Electrical Characteristics

Parameter	Symbol	LED120A0700C24F	LED120A0350C33F	Units
Input Voltage Range	Vin	108 - 132	108 - 132	V
Frequency	f	60	60	Hz
Power Consumption				
Range	Pin	6.8 - 21.5	1.1 - 15.0	W
Efficiency	-	80% typical	80% typical	0/0

Output

Parameter	Symbol	LED120A0700C24F	LED120A0350C33F	Units
Power Output Range	Po	5.5 - 17.2	0.9 - 12.0	W
Output Current	lo	700 (±35)	350 (±17)	mΑ
Total Harmonic				
Distortion	THD	20 Maximum	20 Maximum	0/0
Power Factor	Pf	0.9 Minimum	0.9 Minimum	-
Crest Factor LED				
Current	lpk/lavg	1.5 Maximum	1.5 Maximum	-
Output Voltage				
Range	Vo	7.8 - 24.6	2.6 - 32.8	V
Notes:				

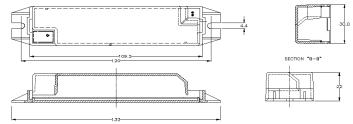
- 1. Electrical characteristics at 25°C ambient temperature.
- 2. Output insulation 3.25KV 60 Hz.
- 3. FCC Class B.

Environmental Ratings

Parameter	Symbol	Minimum	Maximum	Units
Operating Ambient Temperature	Top	-40/-40	+60/+140	°C/°F
Storage Ambient Temperature	T st	-40/-40	+80/+176	°C/°F
Case Temperature	Tc	-	+90/+194	°C/°F
Relative Humidity	RH	-	80	0/0
Lifetime (failures after 50,000 hours)	L50K	-	5	%
Natara				

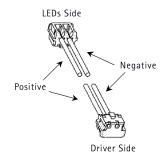
1. Case temperature should be measured at test point Tc, as marked on driver label.

Mechanical Dimensions

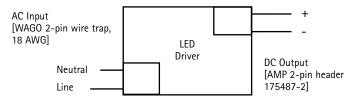


- 1. All dimensions are in millimeters.
- 2. Drawing not to scale.
- 3. Feature two slots for mounting with M4 or #6 size screws.
- 4. AC input WAGO 2-pin wire trap, 18AWG. Leads must be solid core or tinned if multi-stranded wire is used.
- 5. DC output AMP 2-pin header type 175487-2. Use AMP DC/DC connection cable 1496-992-1.
- 6. Housing material Noryl HS2000, UL 94-V0 flame retardant, color black.
- 7. Driver weight, 60 grams.

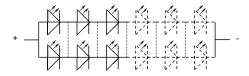
DC/DC Connection Cable



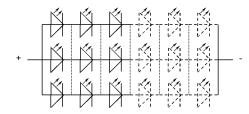
Driver Wiring Diagram



Configuration arrays when using Luxeon™ LEDs With the 700mA Output Current Xitanium:



To drive at 350mA/LED: from 3 to 6 LEDs in series; 2 LEDs in parallel. With or without crossovers.



To drive at 233mA/LED: from 3 to 6 LEDs in series; 3 LEDs in parallel. With or without crossovers.

With the 350mA Output Current Xitanium:



To drive at 350mA/LED: from 1 to 8 LEDs in series

Part Number Description

IFD yyy y yyyy y yy y

LED X	· · · · · · · · · · · · · · · · · · ·
LED	LED Driver
XXX	Input Voltage (024, 120, 230)
Х	AC or DC Input (A=AC; D=DC)
xxxx	Output Voltage in Volts or Output Current in mA
x	Output Mode (C=constant current; V=constant voltage)
xx	Output Current in tenths of Amps (1/10) or Max Open Circuit Voltage in Volts
x	Output Type (F=Fixed; D=Dimmable; C=use with DC/DC Controller only)

Example: LED 120 A 0012 V 21 F

LED	LED Driver
120	Input Voltage
Α	AC Input
0012	Output (in Volts)
V	Constant Voltage
21	Output Current in tenths of Amps (i.e. 2.1 Amps)
F	Fixed Output