

## 25W and 40W Constant Voltage Output



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

The i-Xtanium constant voltage drivers provide the required constant DC current output required LEDs enhancing their long life and optimum operation.

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



### Features

Square housing, compact size (83x77x34 mm)

Meet approbation requirements (UL, CSA, FCC)

DC constant voltage output

Reliability

Power Efficiency

### Benefits

Provides freedom (flexibility) to designers; Support spatial unobtrusiveness of LEDs.

It is a hazard free product; It can be installed in practically any location.

It can operate any LED lamp design the customer is developing or already marketing; No binning of LEDs results in cost savings.

Drivers last as long as LEDs ( $\geq 50,000$  hrs); 5 years warranty (similar to ballasts).

Optimization of the usage of the total system power; Can be fitted into the standard 4" junction box used; Customer pays for the power required and no more (optimized cost of ownership—COO); Power losses (up to 40% of total power) saved by constant current operation mode.

## Selection Guide

Part Number	Description
LED120A0012V21F	120V/25W/12V Xitanium LED Driver
LED120A0024V10F	120V/25W/24V Xitanium LED Driver
LED120A0027V09F	120V/25W/27V Xitanium LED Driver
LED120A0024V18F	120V/40W/24V Xitanium LED Driver

## Environmental Ratings

Parameter	Symbol	Minimum	Maximum	Units
Operating Ambient Temperature	$T_{op}$	-40/-40	+60/+140	°C/°F
Storage Ambient Temperature	$T_{st}$	-40/-40	+80/+176	°C/°F
Case Temperature	$T_c$	-	+95/+203	°C/°F
Relative Humidity	RH	-	80	%
Lifetime (failures after 50,000 hours)	$L_{50K}$	-	5	%

Notes:

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

## Electrical Characteristics

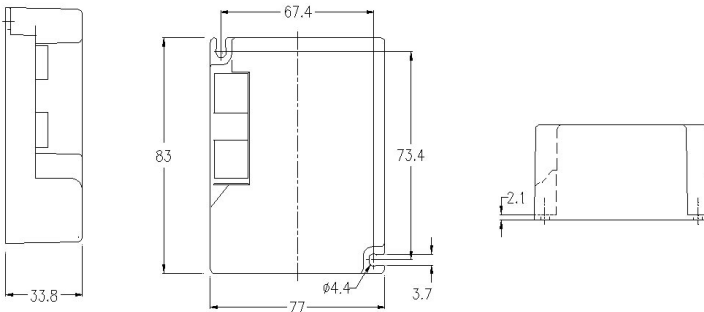
Parameter	Symbol	LED120A0012V21F	LED120A0024V10F	LED120A0027V09F	LED120A0024V18F	Units
Input Voltage Range	$V_{in}$	108 – 132	108 – 132	108 – 132	108 – 132	V
Frequency	f	60	60	60	60	Hz
Power Consumption Range	$P_{in}$	2.9 – 31.9	2.9 – 31.9	2.9 – 31.9	4.4 – 51.0	W
Efficiency	-	80% typical	80% typical	80% typical	80% typical	%

Parameter	Symbol	LED120A0012V21F	LED120A0024V10F	LED120A0027V09F	LED120A0024V18F	Units
Power Output Range	$P_o$	2.3 – 25.5	2.3 – 25.5	2.3 – 25.5	3.5 – 40.8	W
Output Voltage Range	$V_o$	12.0 ( $\pm 0.6$ )	24.0 ( $\pm 1.2$ )	27.0 ( $\pm 1.4$ )	24.0 ( $\pm 1.2$ )	V
Total Harmonic Distortion	THD	20 Maximum	20 Maximum	20 Maximum	20 Maximum	%
Power Factor	$P_f$	0.9 Minimum	0.9 Minimum	0.9 Minimum	0.9 Minimum	-
Crest Factor LED Current	$I_{pk}/I_{avg}$	1.5 Maximum	1.5 Maximum	1.5 Maximum	1.5 Maximum	-
Output Current	$I_o$	0.2 – 2.1	0.1 – 1.05	0.1 – 0.95	0.15 – 1.7	A

Notes:

- Electrical characteristics at 25°C ambient temperature.
- Output insulation 3.25KV, 60 Hz.
- FCC Class B for conducted EMI, FCC Class A for radiated EMI.

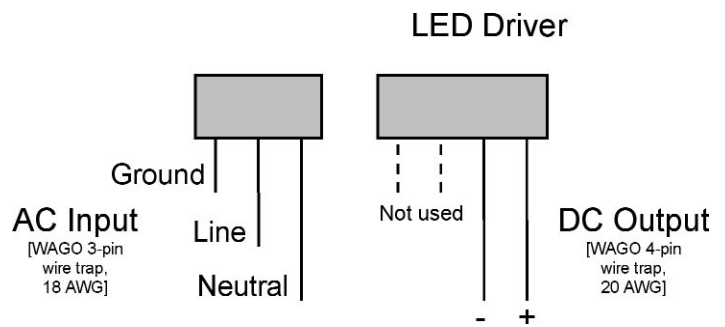
## Mechanical Dimensions



Notes:

- All dimensions are in millimeters.
- Drawing not to scale.
- Feature two slots for mounting with M4 or #6 size screws.
- AC input WAGO 2-pin wire trap, 18AWG. Leads must be solid core or tinned if multi-stranded wire is used.
- DC output WAGO 4-pin wire trap, 18-20AWG. Leads must be solid core or tinned if multi-stranded wire is used.
- Housing material Noryl HS2000, UL 94-V0 flame retardant, color black.
- Driver weight, 140 grams

## Driver Wiring Diagram



## Part Number Description

LED xxx x xxxx x xx x

LED	LED Driver
xxx	Input Voltage (024, 120, 230)
x	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
A	AC Input
0012	Output (in Volts)
V	Constant Voltage
21	Output Current in tenths of Amps (i.e. 2.1 Amps)
F	Fixed Output