

17W Constant Voltage Output



This driver is included in the i-Xitanium (illumination) segment of the Xitanium family of products.

The 17W i-Xitanium constant voltage output driver provides the constant DC voltage output required to operate most existing LED configurations.

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

Features

Slim housing, small size
(132x30x22 mm)

Meet approbation requirements
(UL, CSA, FCC)

24V 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; Customer pays for the power
required and no more (optimized cost of
ownership—COO).



Selection Guide

Part Number	Description
LED120A0024V07F	120V/17W/24V Xitanium LED Driver

Electrical Characteristics

Input Parameter	Symbol	LED120A0024V07F	Units
Input Voltage Range	V_{in}	108 – 132	V
Frequency	f	60	Hz
Power Consumption Range	P_{in}	3.0 – 21.5	W
Efficiency	–	80% typical	%

Output Parameter	Symbol	LED120A0024V07F	Units
Power Output Range	P_o	2.4 – 17.2	W
Output Voltage Range	V_o	24 (± 1.2)	V
Total Harmonic Distortion	THD	20 Maximum	%
Power Factor	P_f	0.9 Minimum	–
Crest Factor LED Current	I_{pk}/I_{avg}	1.5 Maximum	–
Output Current	I_o	100 – 700	mA

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	T_{op}	-40/-40	+60/+140	°C/°F
Storage Ambient Temperature	T_{st}	-40/-40	+80/+176	°C/°F
Case Temperature	T_c	–	+90/+194	°C/°F
Relative Humidity	RH	–	80	%
Lifetime (failures after 50,000 hours)	L_{50K}	–	5	%

Notes:

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

Part Number Description

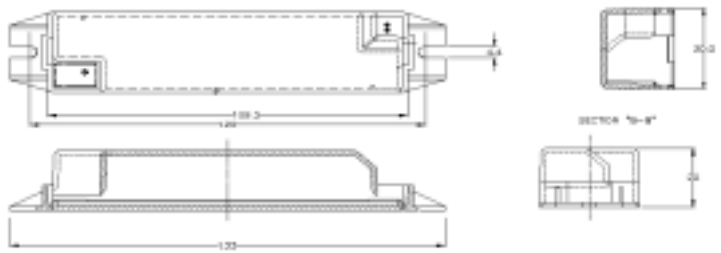
LED xxx x xxxx x xx x

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

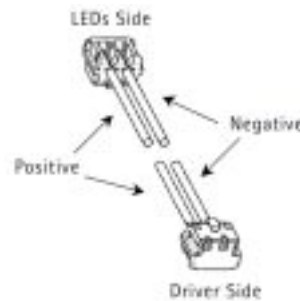
Mechanical Dimensions



Notes:

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

