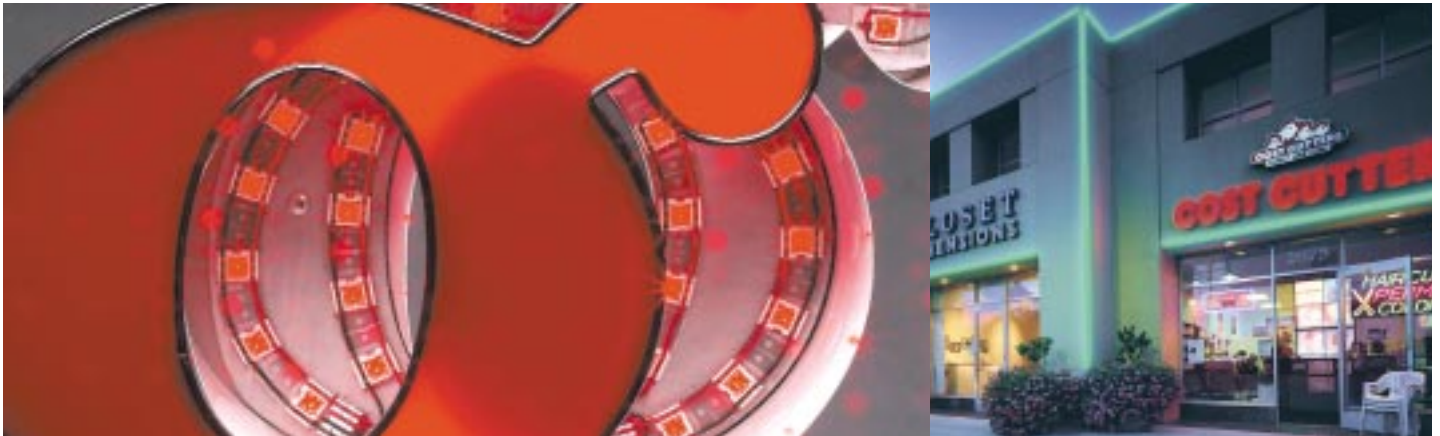


## 40W Constant Voltage Output



These drivers are included in the s-Xtanium (signage) segment of the Xtanium family of products.

The s-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; Can be fitted into the standard 4" junction box used.

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

Capable of operating Xtanium DC/DC Controller.

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
LED120A0024V18C	120V/40W/24V/DC-DC Xitanium LED Driver

## Electrical Characteristics

Input			
Parameter	Symbol	LED120A0024V18C	Units
Input Voltage Range	$V_{in}$	108 – 132	V
Frequency	f	60	Hz
Power Consumption Range	$P_{in}$	4.4 – 51.0	W
Efficiency	–	80% typical	%

Output			
Parameter	Symbol	LED120A0024V18C	Units
Power Output Range	$P_o$	3.5 – 40.8	W
Output Voltage Range	$V_o$	24.0 ( $\pm 1.2$ )	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	$I_o$	0.15 – 1.7	A

### Notes:

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

## 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:

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

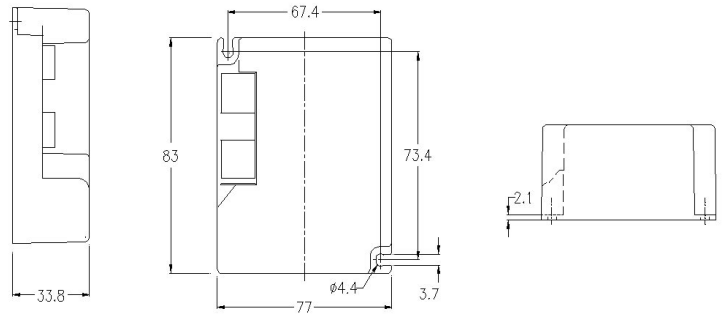
## Part Number Description

LED xxx x xxxx x xx x

Example: LED 120 A 0012 V 21 F

LED	LED Driver	LED	LED Driver
xxx	Input Voltage (024, 120, 230)	120	Input Voltage
x	AC or DC Input (A=AC; D=DC)	A	AC Input
xxxx	Output Voltage in Volts or Output Current in mA	0012	Output (in Volts)
x	Output Mode (C=constant current; V=constant voltage)	V	Constant Voltage
xx	Output Current in tenths of Amps (1/10) or Max Open Circuit Voltage in Volts	21	Output Current in tenths of Amps (i.e. 2.1 Amps)
x	Output Type (F=Fixed; D=Dimmable; C=use with DC/DC Controller only)	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 WAGO 4-pin wire trap, 18-20AWG. Leads must be solid core or tinned if multi-stranded wire is used.
6. Housing material Noryl HS2000, UL 94-V0 flame retardant, color black.
7. Driver weight, 140 grams

## Driver Wiring Diagram

