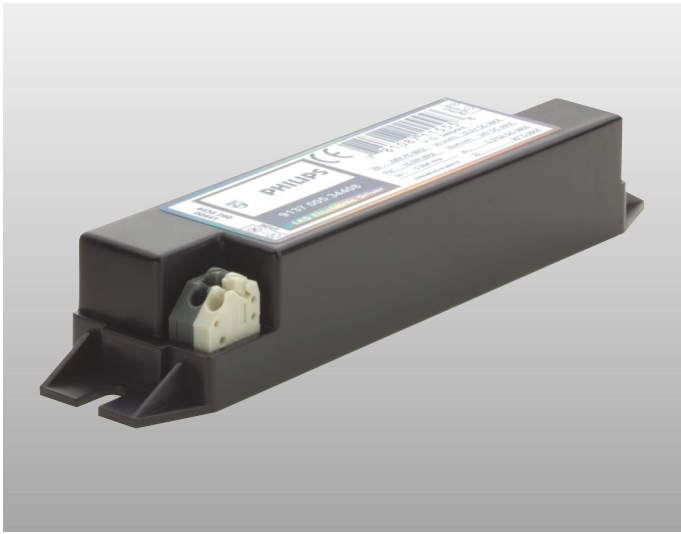


# i-Xtanium™ LED Electronic Driver

## 350mA and 700mA Constant Current Output



### Selection Guide

Part Number	Description
9137 005 18806	230V/17W/0.7A Xtanium LED Driver
9137 005 34408	230V/12W/0.35A Xtanium LED Driver

### Electrical Characteristics

#### Input

Parameter	Symbol	9137 005 18806	9137 005 34408	Units
Input Voltage Range	$V_{in}$	207 – 253	207 – 253	V
Frequency	f	50	50	Hz
Power Consumption Range	$P_{in}$	6.8 – 21.5	1.1 – 15.0	W
Efficiency	–	80% typical	80% typical	%

#### Output

Parameter	Symbol	9137 005 18806	9137 005 34408	Units
Power Output Range	$P_o$	5.5 – 17.2	0.9 – 12.0	W
Output Current	$I_o$	700 ( $\pm 35$ )	350 ( $\pm 17$ )	mA
Total Harmonic Distortion	THD	20 Maximum	20 Maximum	%
Power Factor	$P_f$	0.9 Minimum	0.9 Minimum	–
Crest Factor LED Current	$I_{pk}/I_{avg}$	1.5 Maximum	1.5 Maximum	–
Output Voltage Range	$V_o$	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.

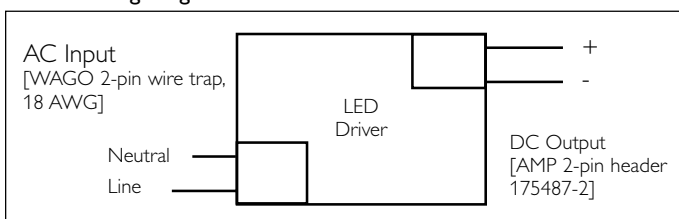
### Environmental Ratings

Parameter	Symbol	Minimum	Maximum	Units
Operating Ambient Temperature	$T_{op}$	-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 hrs)	$L_{50k}$	–	5	%

#### Notes:

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

### Driver Wiring Diagram



### Description

These drivers are included in the i-Xtanium (illumination) segment of the Xtanium family of products. The 350mA and 700mA i-Xtanium Constant Current Output drivers provide the constant DC current output required to enhance the long life and optimum operation of high brightness LEDs. Xtanium Drivers have an operating life matching that of the LEDs.

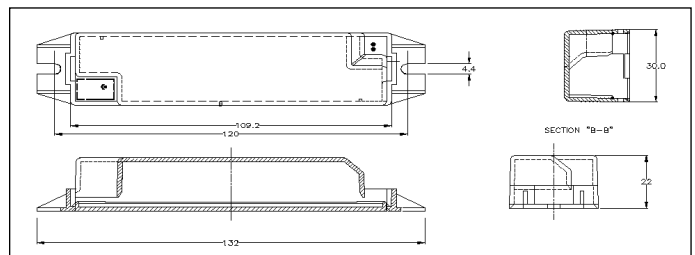
### Features

- Slim housing, small size (132x30x22 mm)
- Meet approbation requirements (CE, ENEC)
- DC constant current output
- Long life (50,000 hrs)
- Power Efficiency
- Compliant with all colours of standard and custom Luxeon™ Power Light Sources

### Benefits

- Light weight.
- Provides freedom (flexibility) to designers.
- Support spatial unobtrusiveness of LEDs.
- Customer pays for the power required and no more (optimised cost of ownership –COO).
- 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
- Optimisation of the usage of the total system power; Power losses (up to 40% of total power) saved by this operation mode.

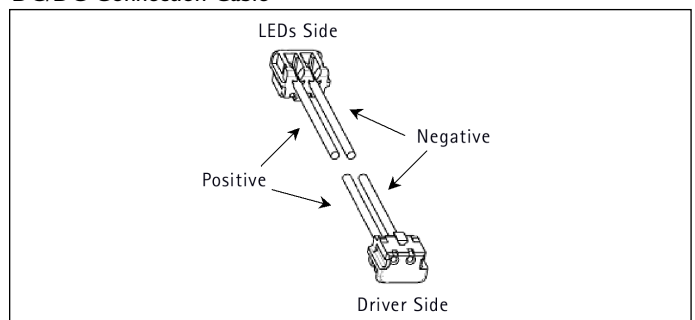
### Mechanical Dimensions



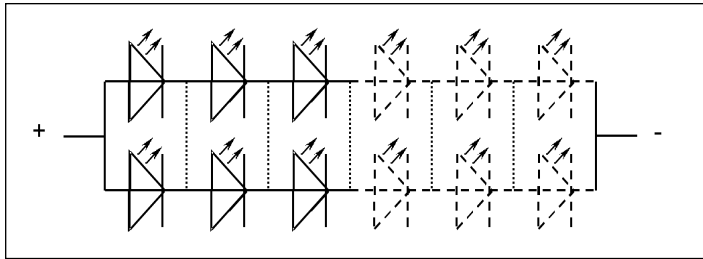
#### Notes:

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, colour black.
7. Driver weight, 60 grams.

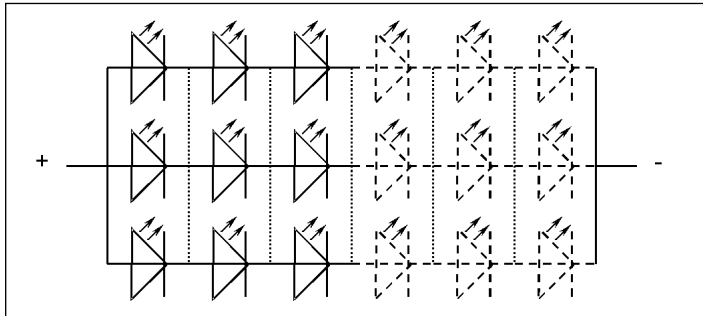
### DC/DC Connection Cable



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

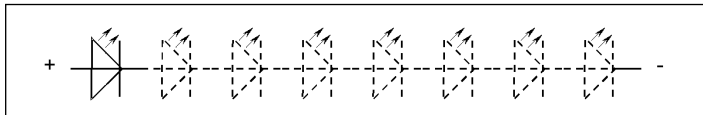


To drive at 350mA/LED: from 3 to 6 LEDs in series; 2 LEDs in parallel.  
With or without crossovers.



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

