

LED Drivers / LED Control Gear

USCO-PRO Series



USCO-PRO

Highlights & Features

- Constant current design
- Universal AC input voltage from 99-305Vac
- High efficiency up to 95%
- Wide operating temperature range -40°C ~ +60°C
- With IP67 protection for most outdoor applications
- Built-in Active PFC and conforms to harmonic current IEC/EN 61000-3-2, Class C
- Adjustable constant current level through program tool
- Common mode 6kV and differential mode 6kV surge immunity
- Suitable for Dry / Damp / Wet location
- 5 years warranty

Safety Standards



CB Certified for worldwide use

General Description

Delta LED drivers come in different series to suit different application needs. The USCO-PRO series features program output current level. All the models come in full corrosion resistance aluminum casing and major international safety certifications. USCO-PRO series offers the capability to achieve different level of LED brightness via built-in 1-10V dimming function to meet various application and energy optimization needs. The products are designed and rigorously tested to work with various indoor and outdoor LED lighting conditions. Featuring high surge immunity (CM: 6kV, DM: 6kV) and complying to IP67 make Delta USCO-PRO series an essential part of an energy efficient LED lighting power solution for both indoor and outdoor applications.

Model Information

Model Number	Input Voltage Range	Output Voltage	Program Output Current Range	Constant Power Current Range
USCO-075140G□□□	110-277Vac Typical (99-305Vac) Range	36-107Vdc	500 – 1400mA	700 – 1400mA
USCO-100140G□□□		47-143Vdc	600 – 1400mA	700 – 1400mA
USCO-150140G□□□	110-277Vac (for North America) 220-240Vac (for European Union/Europe)	72-214Vdc	600 – 1400mA	700 – 1400mA
USCO-200140G□□□		75-190Vdc	600 – 1400mA	1050 – 1400mA
USCO-250140G□□□		90-238Vdc	600 – 1400mA	1050 – 1400mA
USCO-320210G□□□		90-225Vdc	700 – 2100mA	1400 – 2100mA

Model Numbering

USCO –	□□□	□□□	□	□	□□
LED Driver	Output Power 075: 75W 100: 100W 150: 150W 200: 200W 250: 250W 320: 320W	Maximum Output Current 140: 1400mA 210: 2100mA	Dimming Type G – Programmable	Variable A or C– 0-10V DIM & +12V/50mA	Variable

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Specifications

Model Number	USCO-075140GA	USCO-100140GA	USCO-150140GC	USCO-200140GA	USCO-250140GA	USCO-320210GA
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Input Ratings / Characteristics

Nominal Input Voltage	110-277Vac (99-305Vac)						
Nominal Input Frequency	50-60Hz (47-64Hz)						
Power Factor	Full Load: >0.98@110/120Vac, >0.95@230Vac, >0.92@277Vac; >70% Load: >0.90@110/120/230Vac; >50% Load: >0.90@277Vac;						
Total Harmonic Distortion	THD<20% with load \geq 50% at 110/120/230Vac input and load \geq 75% at 277Vac input						
Max. Input Current	110Vac	0.78A	1.04A	1.67A	2.1A	2.6A	3.23A
Efficiency at 100% Load (Typical), Tested after 30 minutes warm up.	120Vac	90%@0.7A	90.5%@0.7A	91.5%@0.7A	93%@1.05A	93.0%@1.05	93%@1.4A
	230Vac	92%@0.7A	92.5%@0.7A	93.0%@0.7A	94%@1.05A	94.5%@1.05	94.5%@1.4A
	277Vac	92%@0.7A	93.0%@0.7A	93.0%@0.7A	94%@1.05A	94.5%@1.05	94.5%@1.4A
Inrush Current (Apk / 50%-us) (Cold Start)	120Vac	40A/250uS	40A/250uS	60A/250uS	120A/200uS	140A/150uS	90A/250uS
	230Vac	65A/250uS	65A/250uS	110A/250uS	180A/200uS	280A/150uS	180A/250uS
	277Vac	80A/250uS	80A/250uS	130A/250uS	220A/200uS	320A/150uS	220A/250uS
Max. No. of drivers MCB at 230Vac	B16	8	8	5	4	2	3
	C16	14	12	8	6	4	5
Leakage Current	<0.7mA peak @ 277Vac						
Standby Power	<0.5W @ Dim to off, 230Vac & 277Vac						
Input Over-voltage	Can survive input over-voltage stress of 320VAC for 48 hours and 350VAC for 2 hours						

Output Ratings / Characteristics

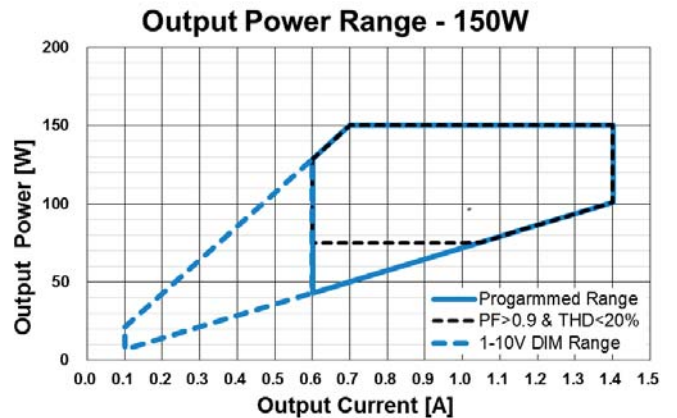
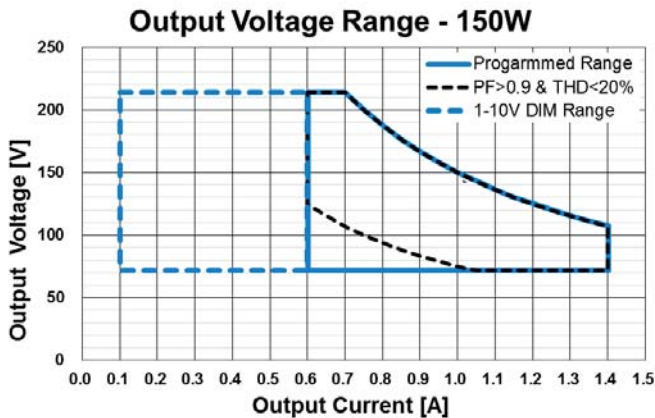
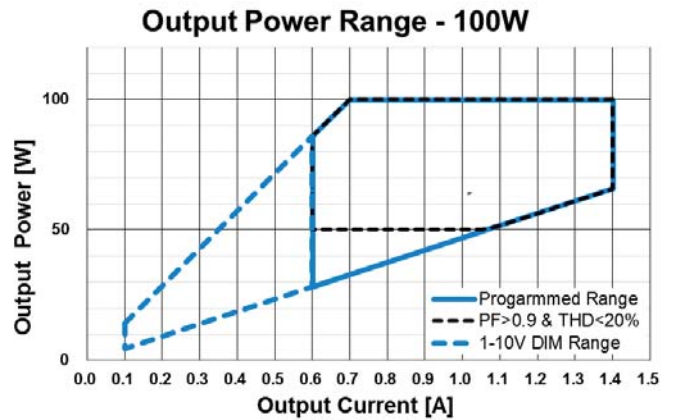
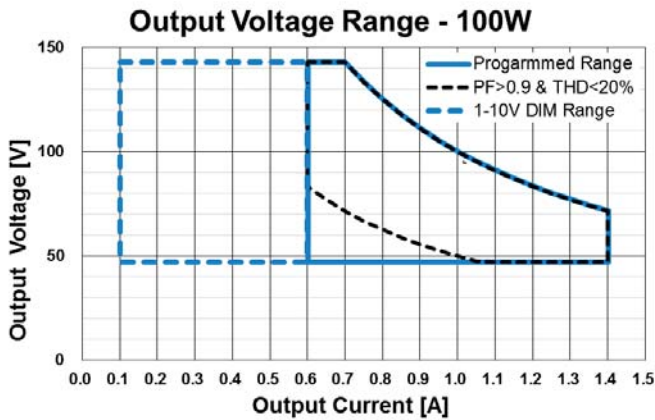
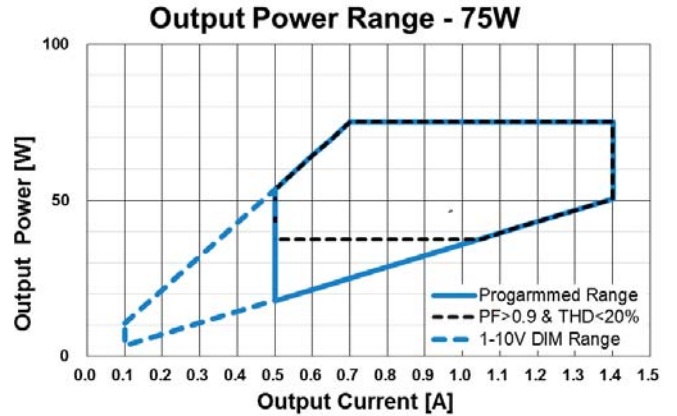
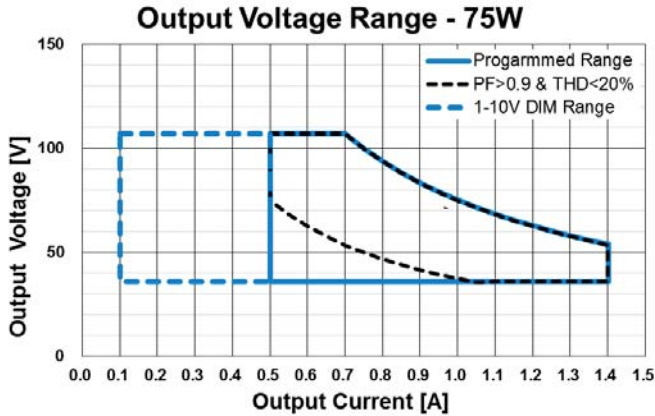
Output Power	75W	100W	150W	200W	250W	320W
Output Voltage	36-107Vdc	47-143Vdc	72-214Vdc	75-190Vdc	90-238Vdc	90-225Vdc
Max. No Load Output Voltage	120Vrms	150Vrms	250Vrms	230Vrms	250Vrms	250Vrms
Adjustable Output Current (AOC)	500-1400mA	600-1400mA	600-1400mA	600-1400mA	600-1400mA	700-2100mA
	With steps of 1 mA, configurable via software					
Minimum Output Current	100mA (Min dim level)					
Current Accuracy	\pm 5% (@ Typical output current range)					
Line / Load Regulation	\pm 1% (@ 110-277Vac input) / \pm 3% (@ Min-Max output voltage)					
Output Current LF Ripple	5% (ripple = peak-average/average) at full load					
Start-up Time	500ms max. @ 110-277Vac (full load)					
Hold-up Time	16ms typ. @ 110-277Vac (full load)					

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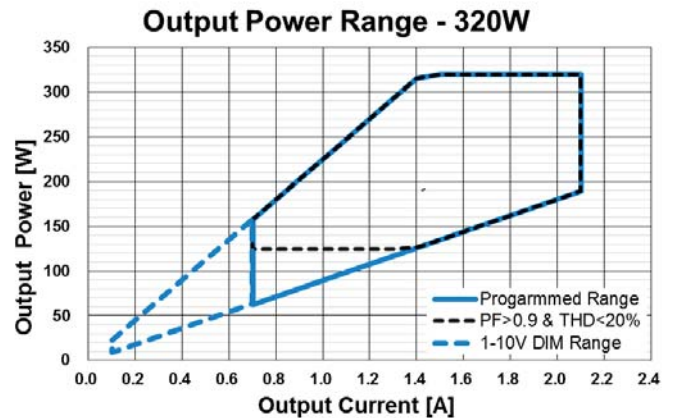
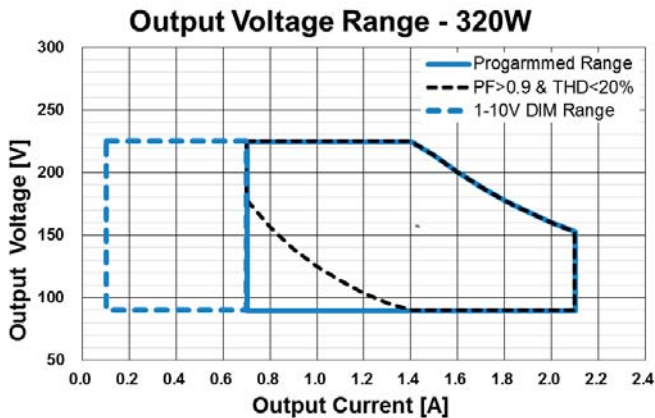
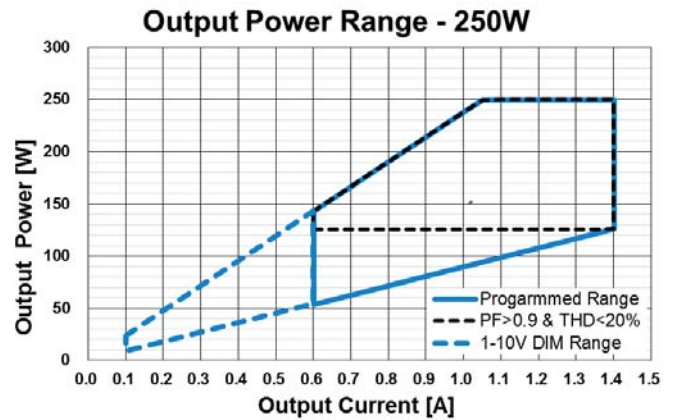
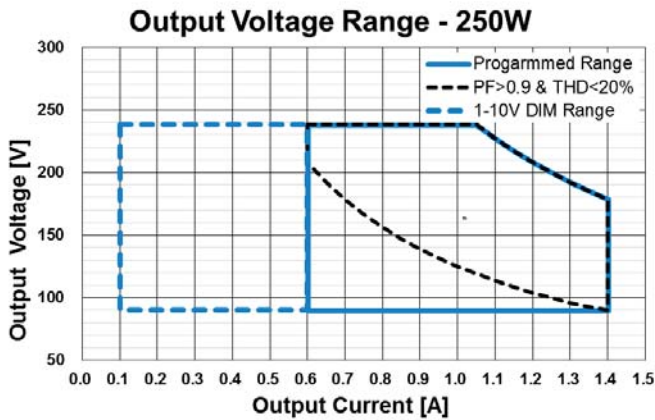
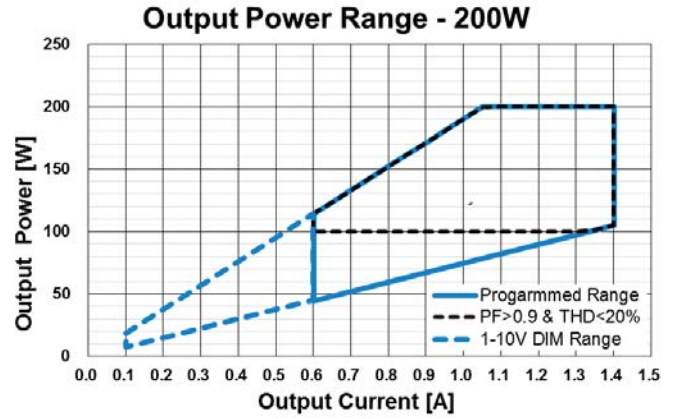
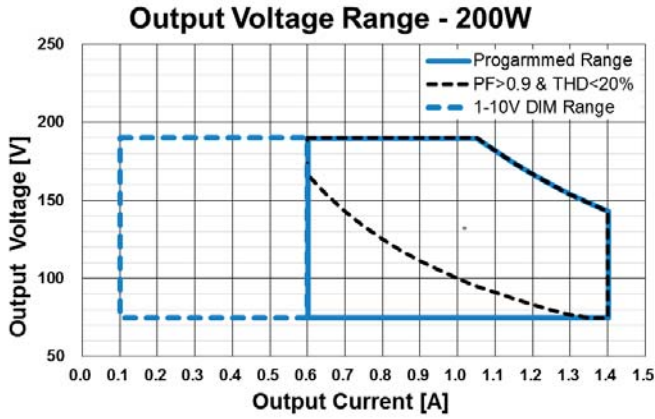
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Mechanical

Casing	Aluminum, color : Natural					
Dimensions (L x W x D) mm	174*68*37	174*68*37	220*68*37	240*68*37	240*68*37	240*100*38
Unit Weight (gram)	900	900	1100	1200	1300	2000
Noise (30cm distance)	Sound Pressure Level (SPL) < 24dBA					
Wire	Input	Line: Brown, Neutral: Blue, PE: Yellow/Green, Cable Length 300mm				
	Output	Positive: Brown, Negative: Blue; NTC/PRG: Black; Cable Length 300mm				
	Dimming	Dim(+): Violet, Dim(-): Gray, +12V: Black/White, Cable Length 300mm				

Environment

Ambient Temperature	Operating	-40°C to +60°C (+60°C ~ +70°C Load de-rating)			-40°C~ +55°C	-40°C~ +50°C
	Storage	-40°C to +85°C				
Maximum Case Temperature	+85°C	+85°C	+85°C	+90°C	+90°C	+90°C
Power De-rating	>60°C(75/100/150/200W), >55°C(250W), >50°C(320W) de-rating power & <110Vac de-rating power "OUTPUT LOAD VS INPUT VOLTAGE" & "OUTPUT LOAD VS AMBIENT TEMPERATURE"					
Humidity	Operating	10 to 90% RH (Non-Condensing)				
	Storage	5 to 95% RH (Non-Condensing)				
Shock Test (Non-Operating)	IEC 60068-2-27, Half Sine Wave: 50G for a duration of 11ms, 3 shocks for each 3 directions					
Vibration (Non-Operating)	IEC 60068-2-6, Random: 5Hz to 500Hz (2.09G); 20 min per axis for all X, Y, Z direction					

Protections

Over Voltage	108-120Vdc	144-160Vdc	215-250Vdc	191-230Vdc	239-250Vdc	226-250Vdc
	Auto-Recovery when the fault is removed					
Over Load	Reduce output current. Auto-Recovery when the fault is removed					
Over Temperature	Reduce output current. Auto-Recovery when the fault is removed					
Output Short Circuit	Auto-Recovery when the fault is removed					
Suitable for Luminaires Class	Class I. Insulation Class according to IEC60598					

Reliability Data

Lifetime	50,000 hours at case temp. tc= +80°C & full load. Refer to "LIFETIME VS CASE TEMPERATURE"
MTBF	500 khours at ta=+50°C (75-250W), ta=+45°C (320W), Telcordia SR-332.
Warranty life	5 years at ta=+50°C (75-250W), ta=+45°C (320W)

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Certificates and standards

Safety	CB scheme to IEC 61347-1, IEC 61347-2-13 (independent) ENEC to EN 61347-1, EN 61347-2-13 UL/cUL (cRUus) to UL 8750, type"HL" & type"TL" Compliance to IEC/EN/UL 60950-1 SELV for 75W				
CE	In conformance with EMC Directive 2004/108/EC and Low Voltage Directive 2006/95/EC				
Galvanic Isolation	Mains (Input)	Earth (Case)	Output/PROG	DIM +/- & +12V	
	Mains (Input)	N/A	1875V	3750V	3750V
	Earth (Case)	1875V	N/A	1875V	1875V
	Output/PROG	3750V	1875V	N/A	1875V
	DIM +/- & +12V	3750V	1875V	1875V	N/A

EMC Compliance

EMC / Emissions	Compliance to EN 55015:2013 Class B; 47 CFR FCC Part 15, Subpart B, Class B	
Immunity to	Compliance to EN 61547:2009	
Electrostatic Discharge	IEC 61000-4-2:2008 ED.2.0	ESD, Criteria A ¹ or B ² Air Discharge: 8kV Contact Discharge: 4kV
Radiated Field	IEC 61000-4-3:2010 ED.3.2	RS, Criteria A ¹ 80MHz-1GHz, 3V/m with 1kHz Sine Wave / 80% AM Modulation
Electrical Fast Transient / Burst	IEC 61000-4-4:2012 ED.3.0	EFT, Criteria A ¹ or B ² 1kV
Surge	IEC 61000-4-5:2014 ED.3.0	Criteria A ¹ or B ² Common Mode ³ : 6kV; Differential Mode ⁴ : 6kV 1.2/50 μ s, 8/20 μ s Combination Wave with 2ohms (L-N), 12ohms (L-PE & N-PE) source impedance
Conducted	IEC 61000-4-6:2013 ED.4.0	CS, Criteria A ¹ 150kHz-80MHz, 3Vrms
Power Frequency Magnetic Fields	IEC 61000-4-8:2009 ED.2.0	PFMF, Criteria A ¹ 3A/Meter
Voltage Dips	IEC 61000-4-11:2004 ED.2.0	Criteria A ¹ or B ² ; 100% dip; 0.5 cycle; Self Recoverable 30% dip; 10 cycle; Self Recoverable
Harmonic Current Emission	IEC 61000-3-2:2014	Class C (230Vac @ \geq 50% load)
Voltage Fluctuation & Flicker	IEC 61000-3-3:2013	

1. Criteria A: Normal performance within the specification limits
2. Criteria B: Temporary degradation or loss of function which is self-recoverable
3. Asymmetrical: Common mode (Line to earth)
4. Symmetrical: Differential mode (Line to line)

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1-10V Dimming Specification

Absolute Maximum Voltage	+/- 20V
Source Current	200uA +/- 50uA
Dimming Input Range	<ol style="list-style-type: none"> 1) 0-10V, 1.2V (+/-0.1V) is 10% of Io_set or 100mA minimum, ≥8.5V is 100% of Io_set. 2) Lower than 1.1V (+/-0.1V) → Dim to off is programmable. 0.1V Hysteresis. 3) Short is 0% (dim to off) 4) Open is 100% 5) See 0-10V Dimming Curve
Dimming Current Tolerance	+/- 10% of maximum setting output current. Ex. Io_set=1000mA, tolerance is +/-100mA.

Default settings of the driver (can be changed with programmer tools)

Adjustable Output Current (AOC)	700mA	700mA	700mA	1050mA	1050mA	1400mA
0-10V DIM	Enabled (DIM to OFF). Selectable for Min. Dim Level and Min. & Max. Dim Voltage though Tools					
Smart Time DIM	Disabled (Only one function will be enabled between 0-10V & Smart Time Dim)					
Module Temperature Protection (MTP)	Disabled. Settable though programmable tools					
Constant Lumen Output (CLO)	Disabled. Settable though programmable tools.					
End of Life indication (EOL)	Disabled. Settable though programmable tools					
DALI	Not ready (Plan for GB version), According IEC 62386 -101/102/207					

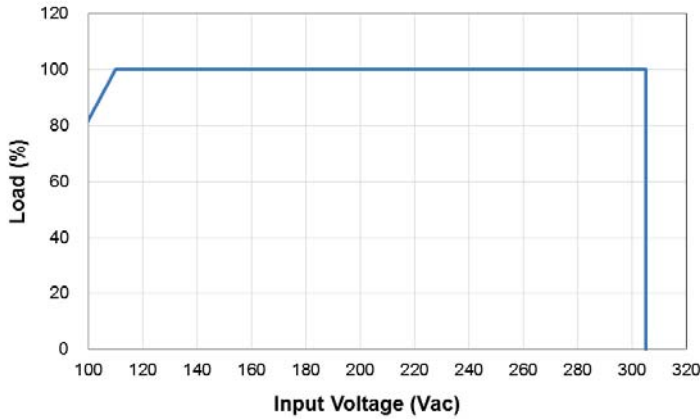
Auxiliary Output Voltage

+12V Output Range	+12Vdc (10.8 – 13.2Vdc)
+12V Output Current	50mA
Maximum Output Power	0.6W

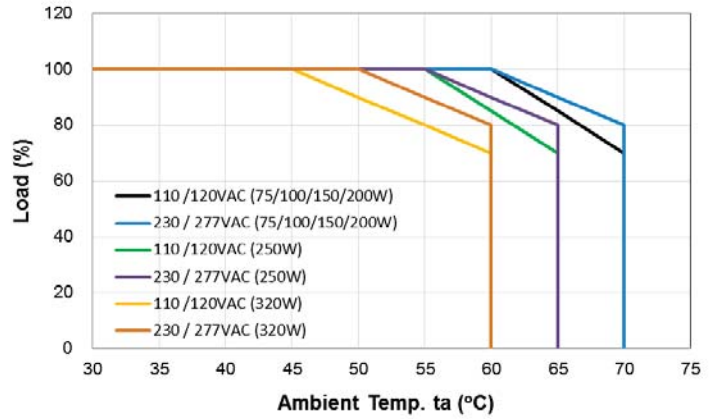
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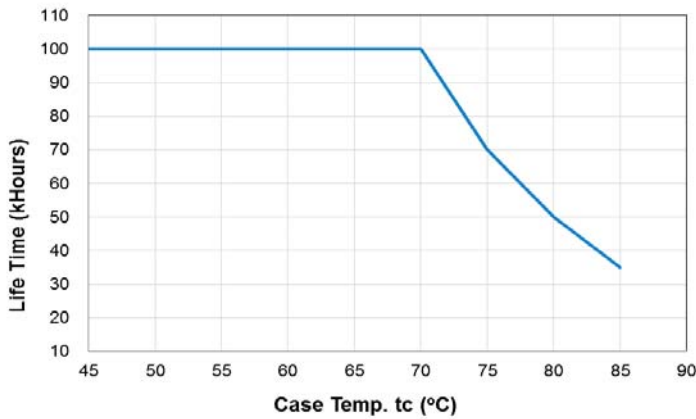
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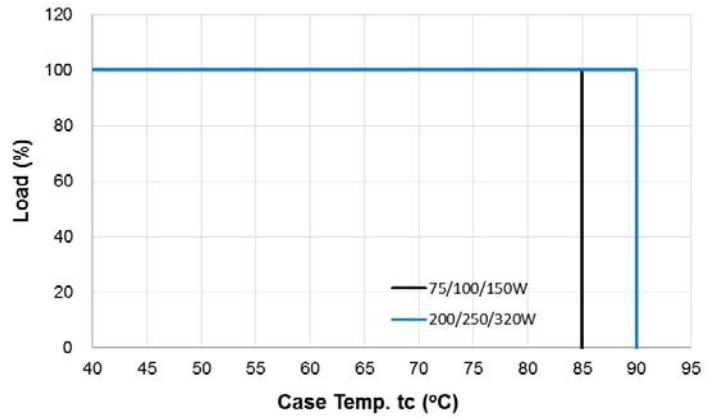
• OUTPUT LOAD VS AMBIENT TEMPERATURE



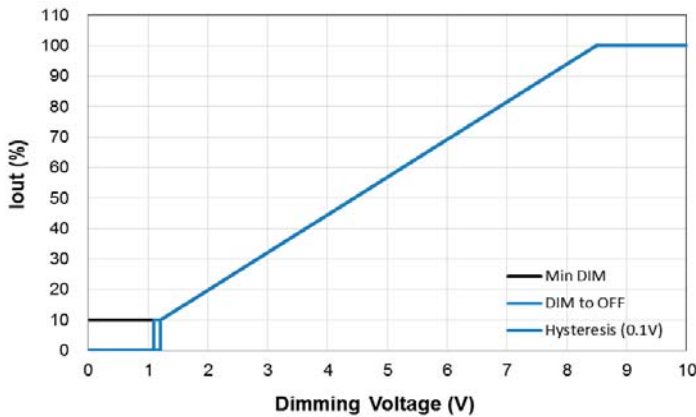
• LIFETIME VS CASE TEMPERATURE



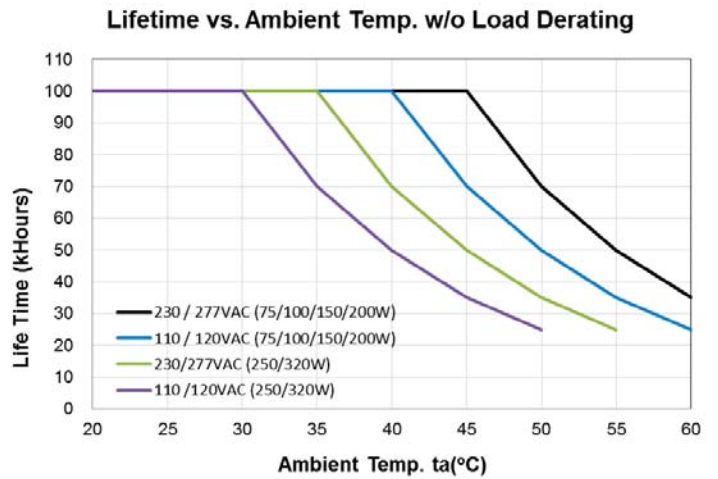
• OUTPUT LOAD VS CASE TEMPERATURE



• DIMMING CURVE



• LIFETIME VS AMBIENT TEMPERATURE



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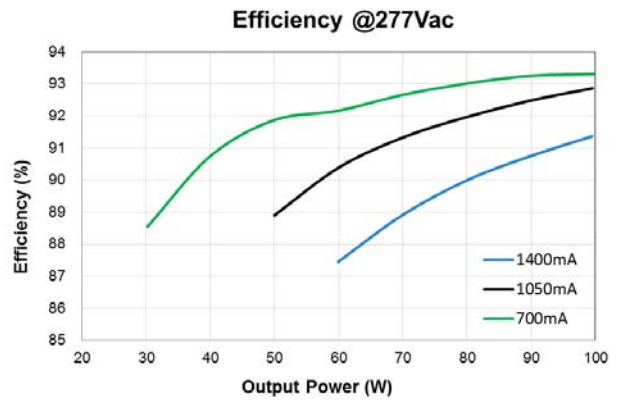
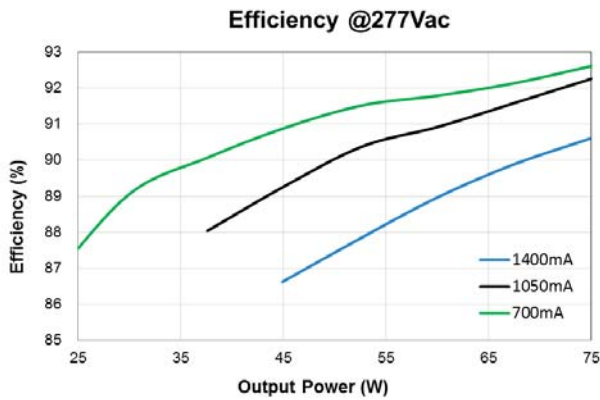
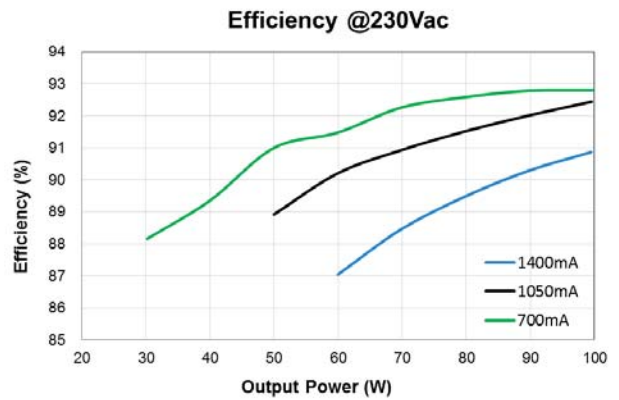
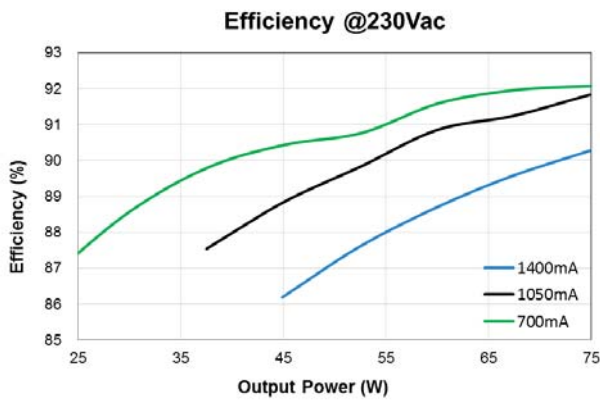
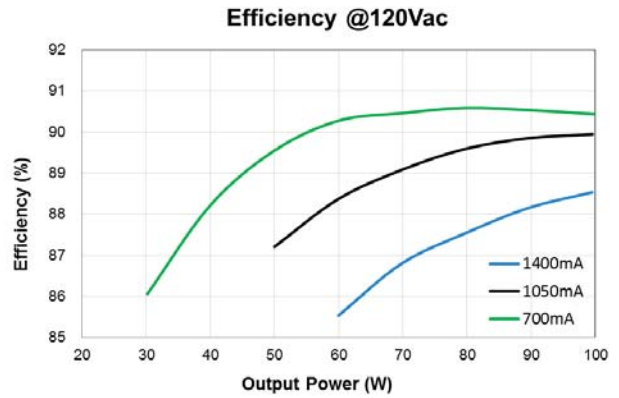
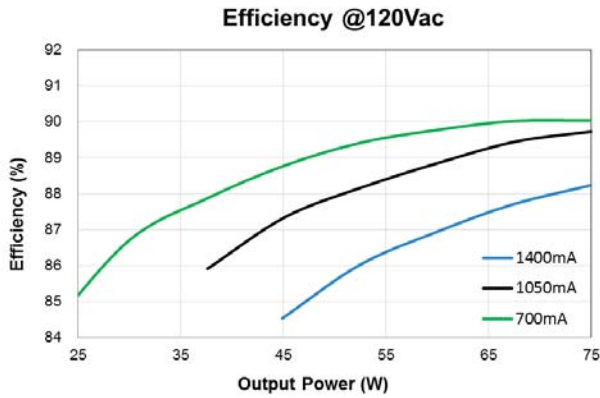
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• EFFICIENCY versus OUTPUT POWER

USCO-075140GA – 75W

USCO-100140GA – 100W



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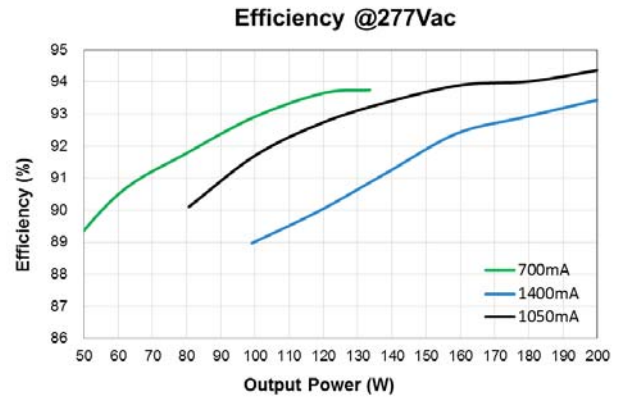
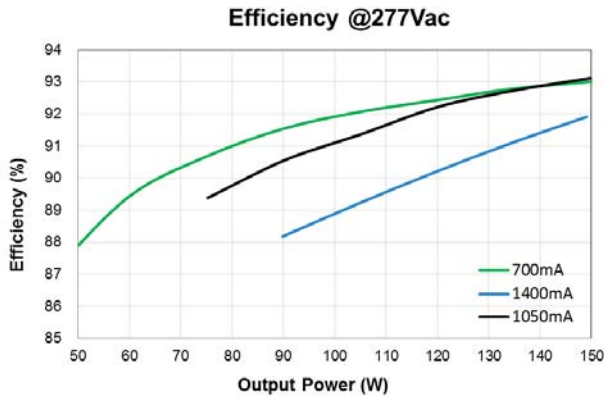
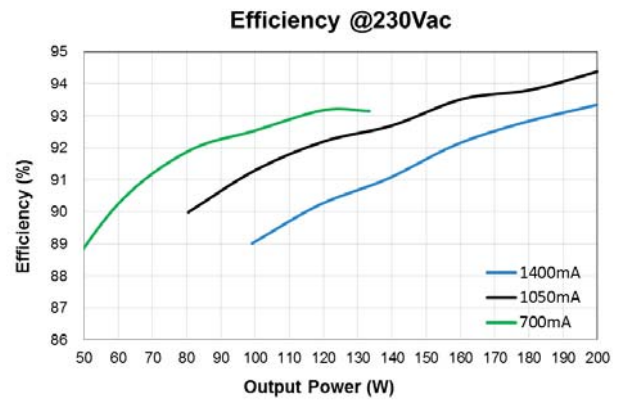
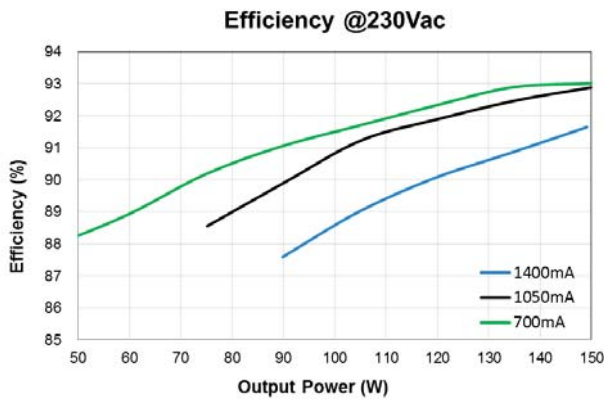
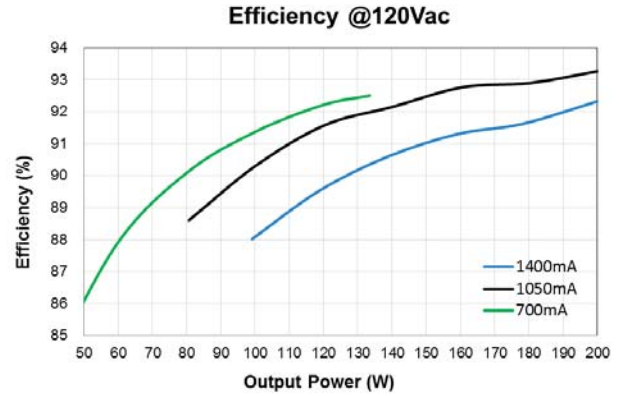
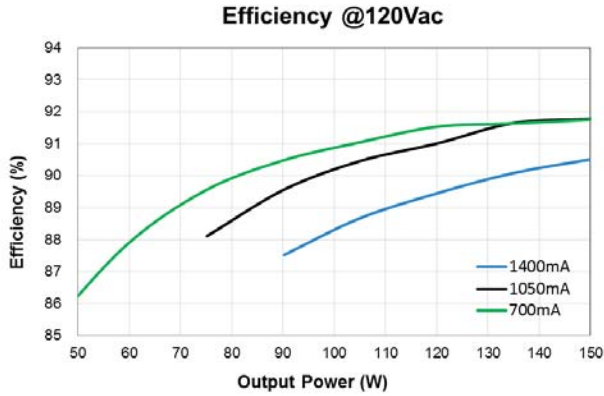
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• EFFICIENCY versus OUTPUT POWER

USCO-150140GC – 150W

USCO-200140GA – 200W



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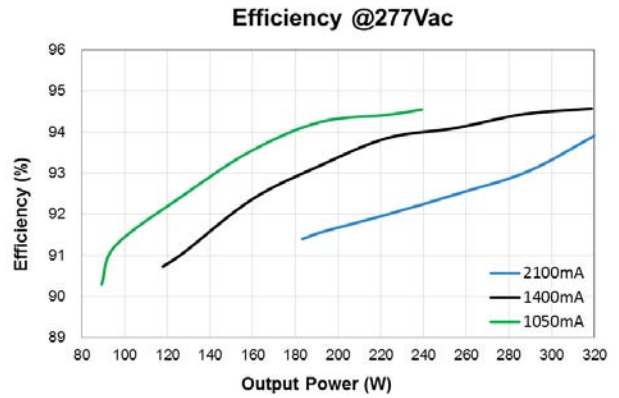
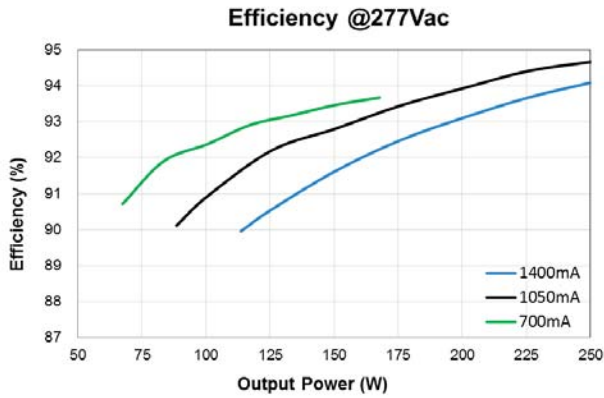
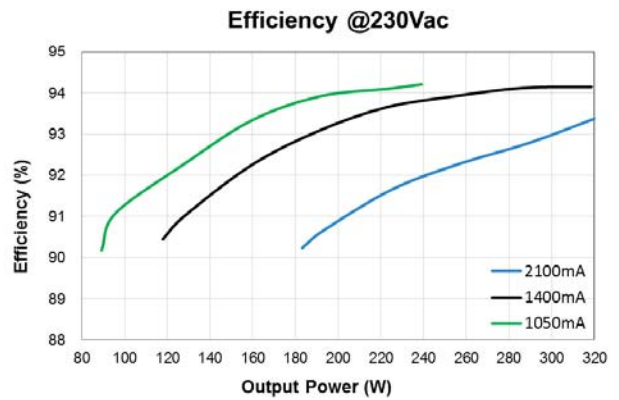
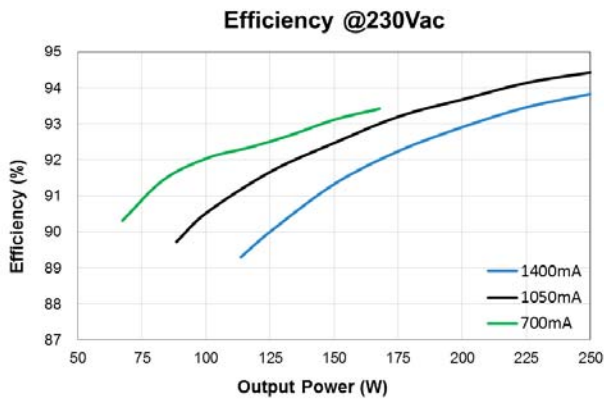
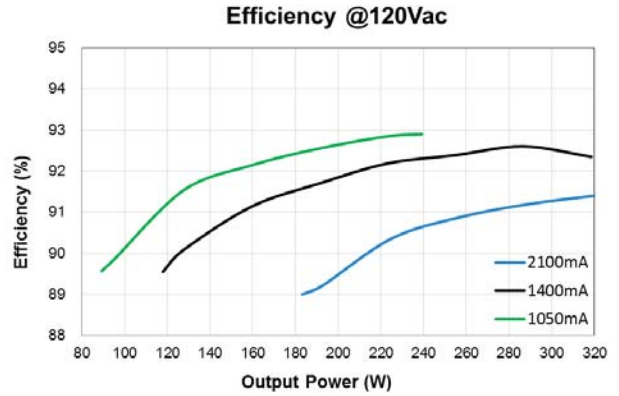
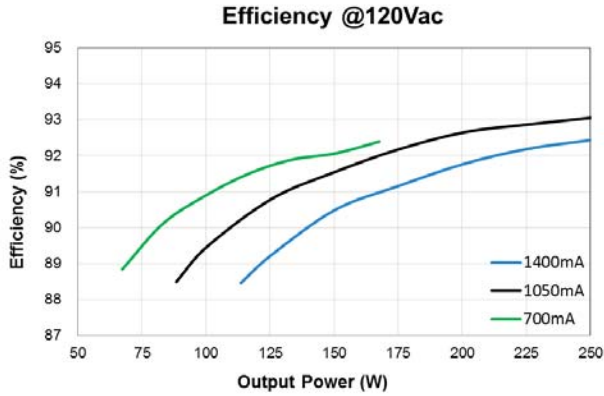
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• EFFICIENCY versus OUTPUT POWER

USCO-250140GA – 250W

USCO-320210GA – 320W



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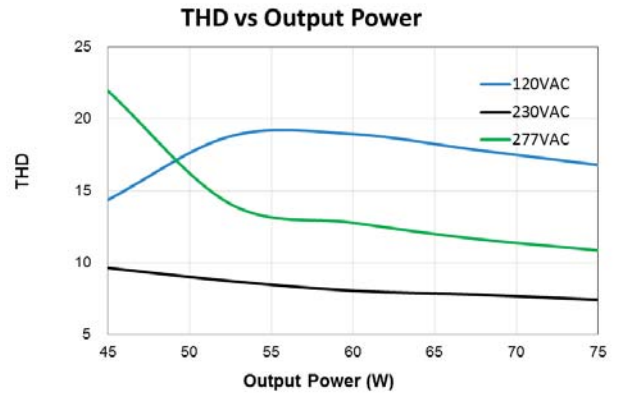
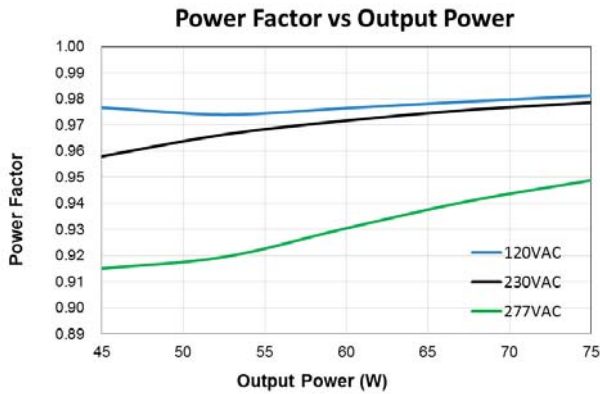


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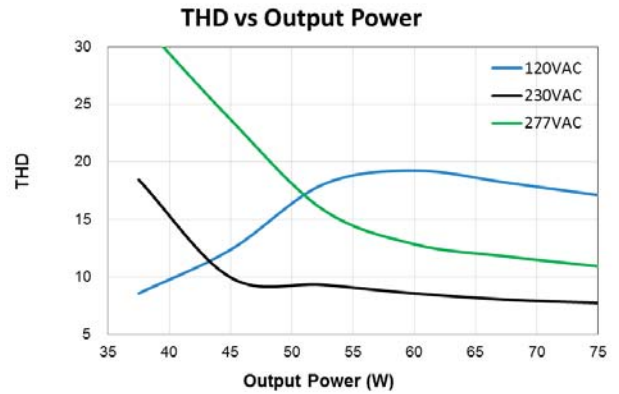
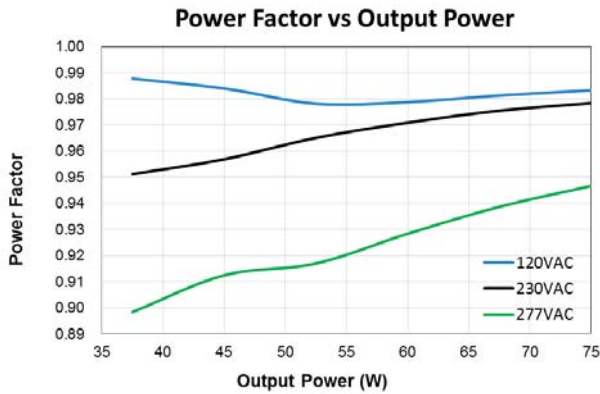
USCO-PRO Series

- POWER FACTOR versus OUTPUT POWER
- TOTAL HARMONIC DISTORTION versus OUTPUT POWER

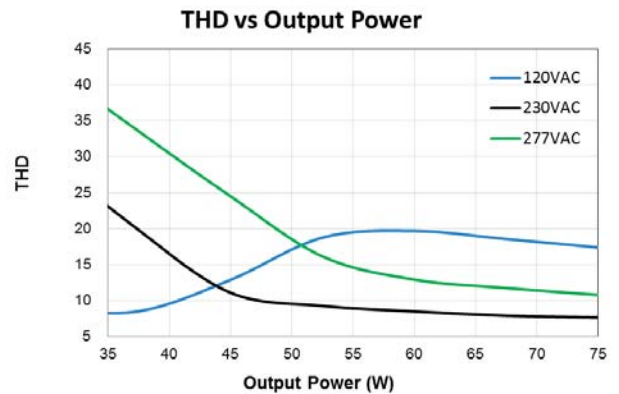
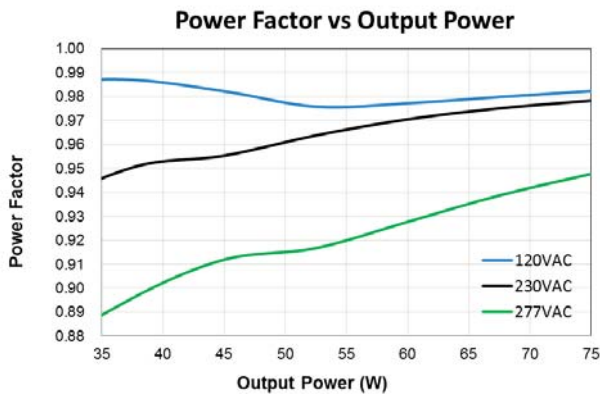
• USCO-075140GA – 1400mA



• USCO-075140GA – 1050mA



• USCO-075140GA – 700mA



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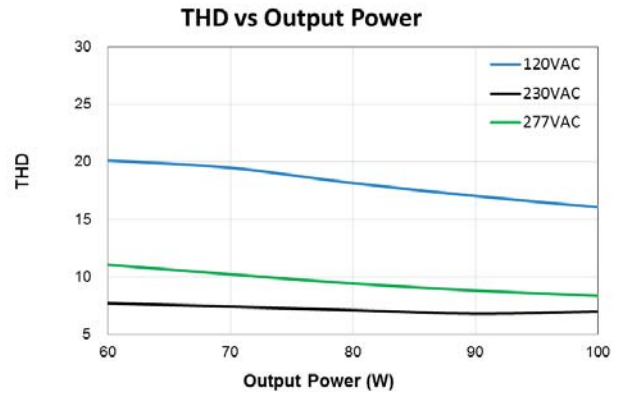
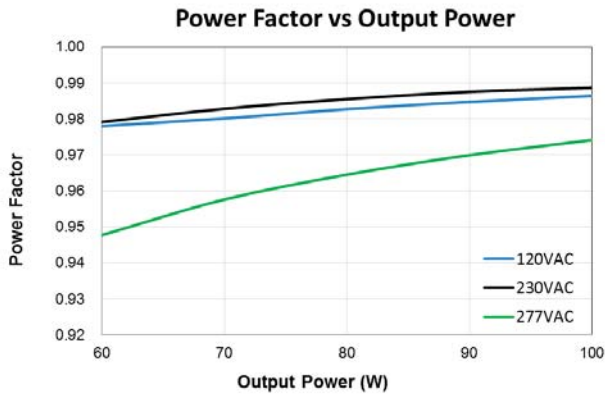


LED Drivers / LED Control Gear

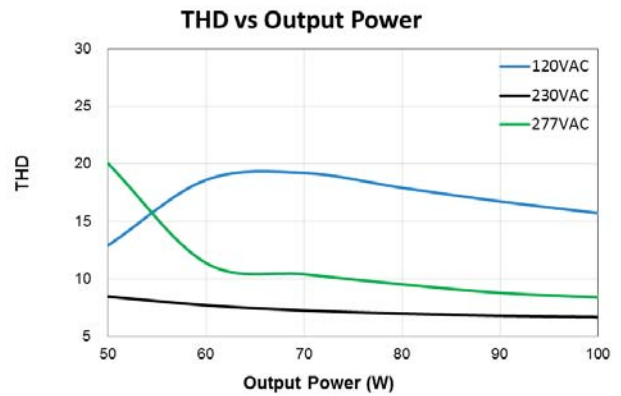
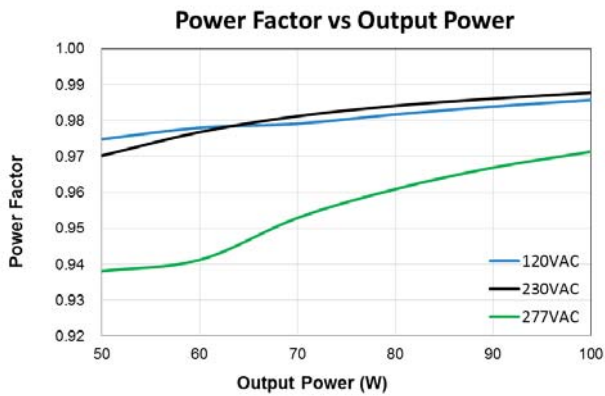
USCO-PRO Series

- POWER FACTOR versus OUTPUT POWER
- TOTAL HARMONIC DISTORTION versus OUTPUT POWER

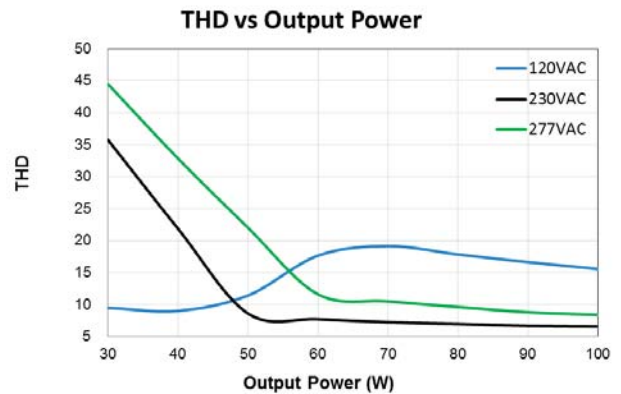
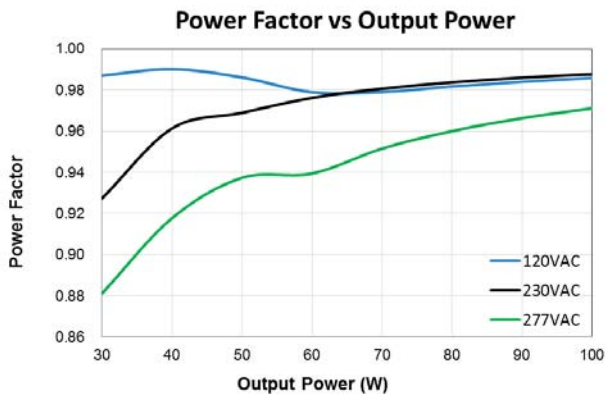
• USCO-100140GA – 1400mA



• USCO-100140GA – 1050mA



• USCO-100140GA – 700mA



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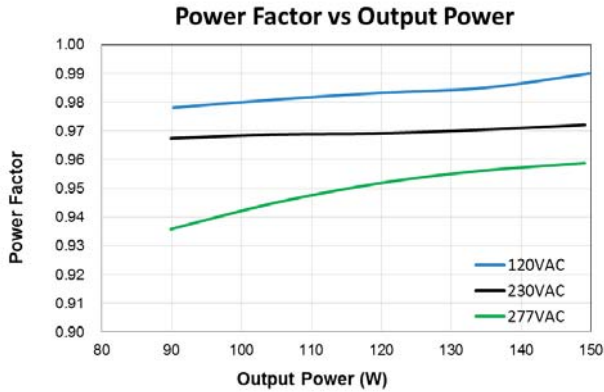


LED Drivers / LED Control Gear

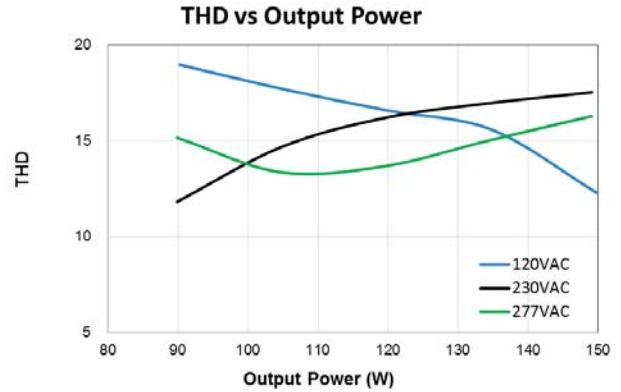
USCO-PRO Series

- POWER FACTOR versus OUTPUT POWER

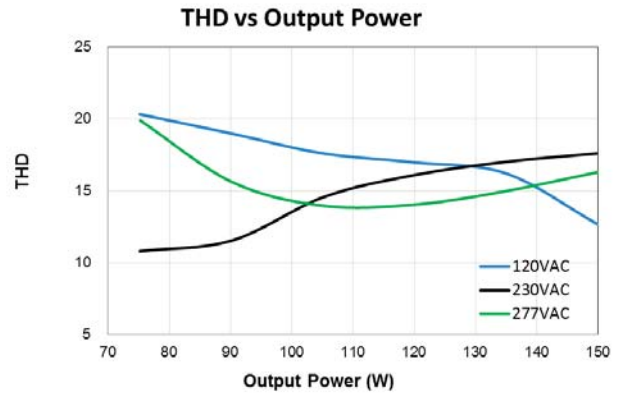
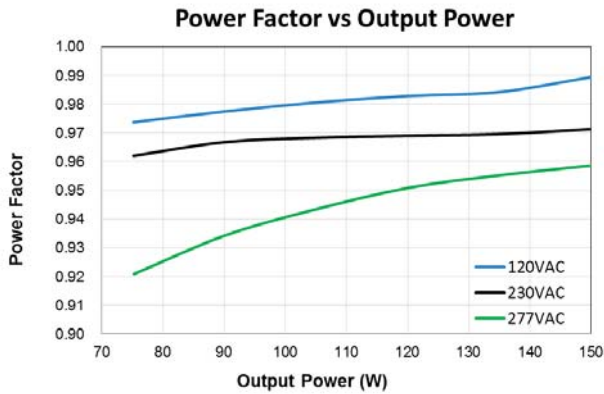
- USCO-150140GC – 1400mA



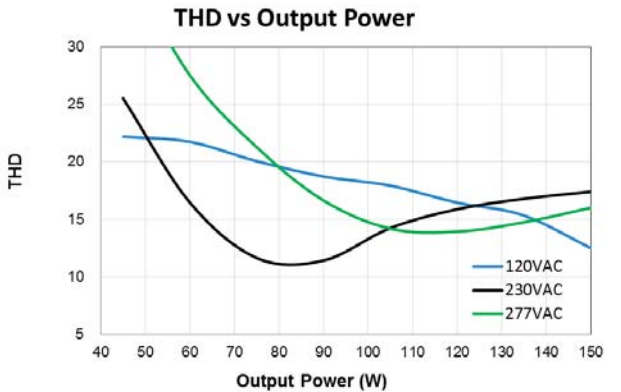
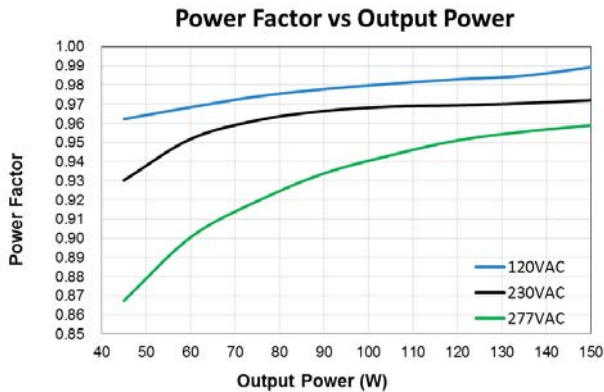
- TOTAL HARMONIC DISTORTION versus OUTPUT POWER



- USCO-150140GC – 1050mA



- USCO-150140GC – 700mA



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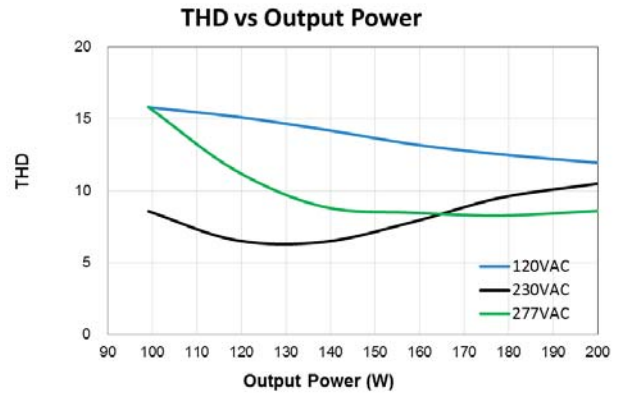
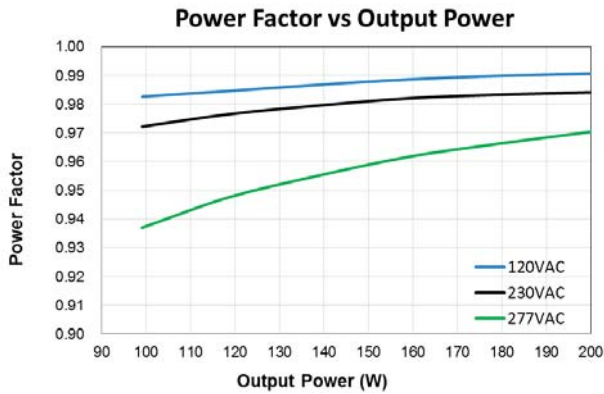
www.deltaww.com (Sep 2017, Rev. 03)



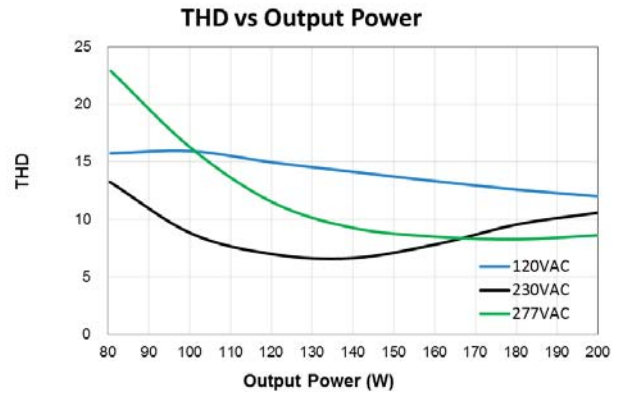
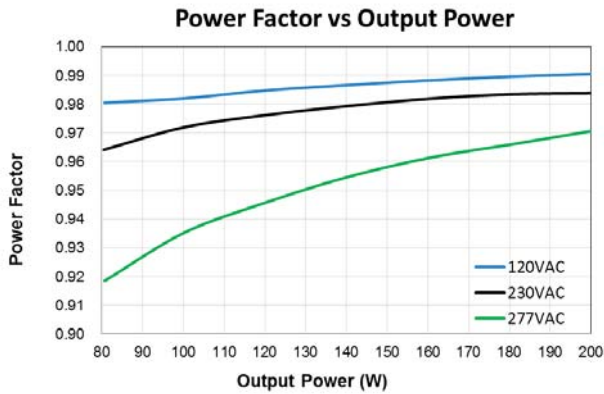
LED Drivers / LED Control Gear

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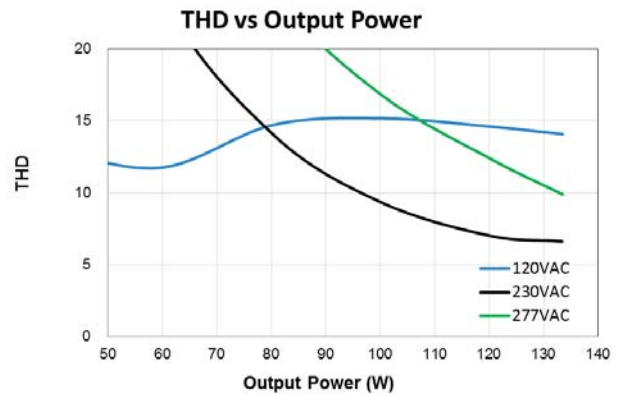
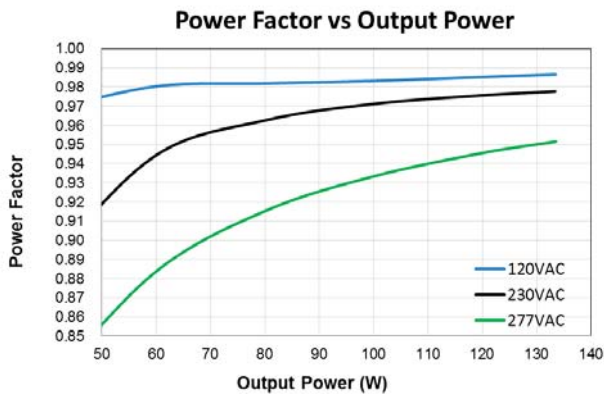
- POWER FACTOR versus OUTPUT POWER
 - TOTAL HARMONIC DISTORTION versus OUTPUT POWER
- USCO-200140GA – 1400mA



- USCO-200140GA – 1050mA



- USCO-200140GA – 700mA



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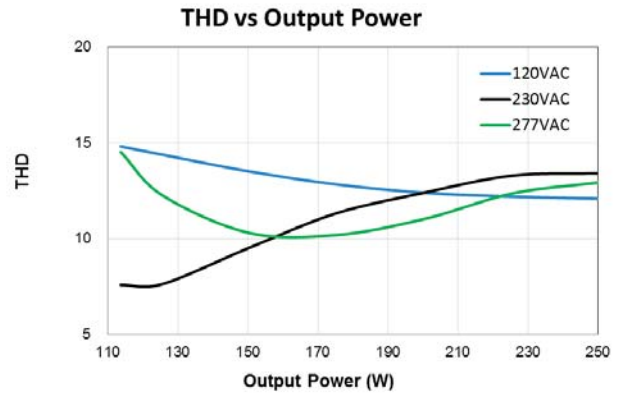
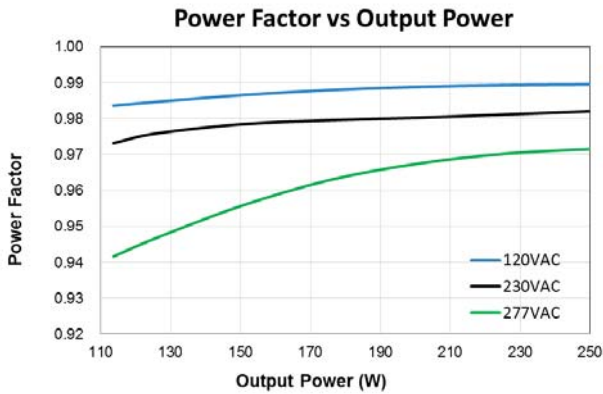


LED Drivers / LED Control Gear

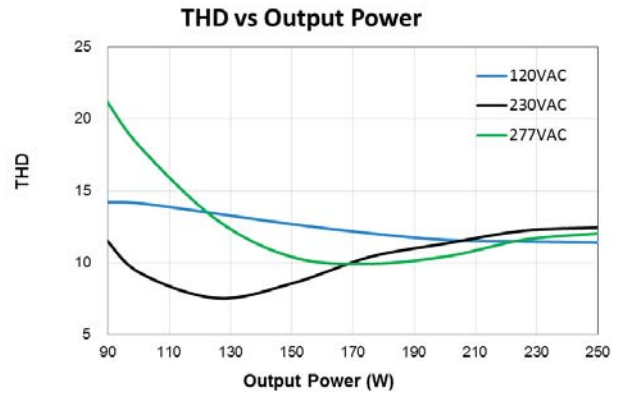
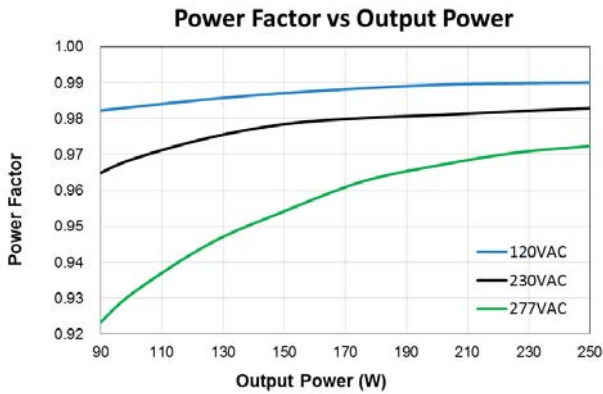
USCO-PRO Series

- POWER FACTOR versus OUTPUT POWER
- TOTAL HARMONIC DISTORTION versus OUTPUT POWER

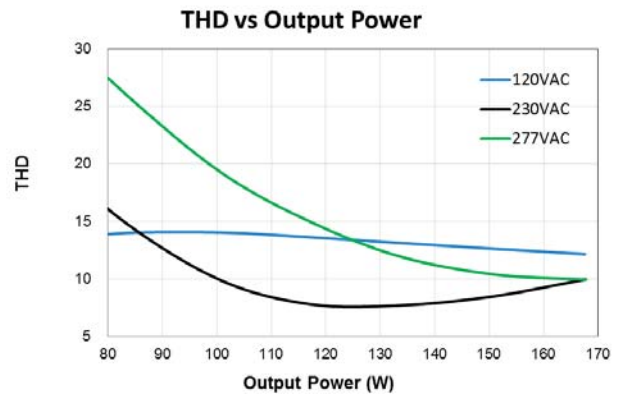
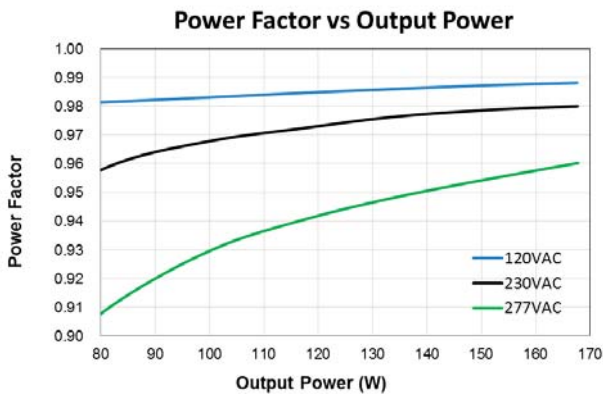
• USCO-250140GA – 1400mA



• USCO-250140GA – 1050mA



• USCO-250140GA – 700mA



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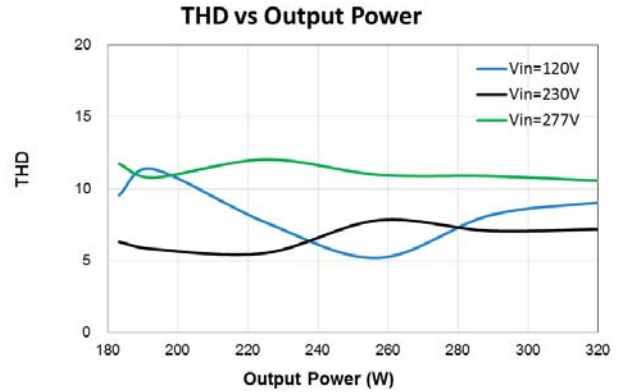
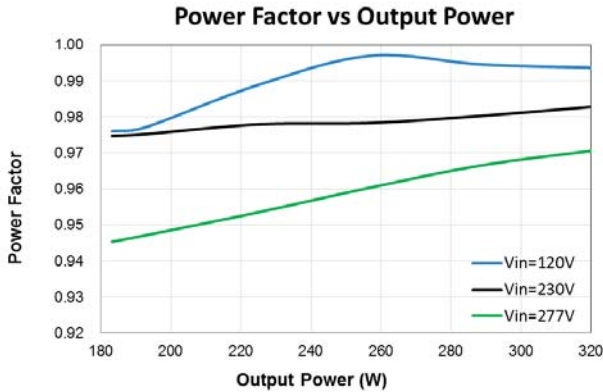
www.deltaww.com (Sep 2017, Rev. 03)



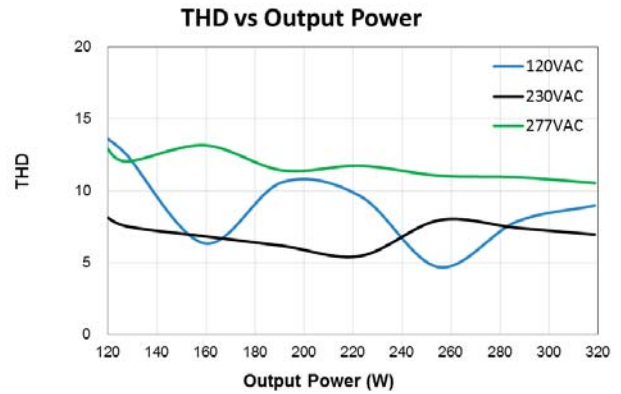
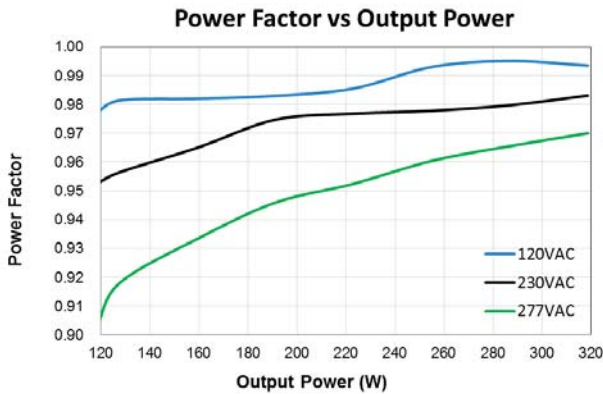
LED Drivers / LED Control Gear

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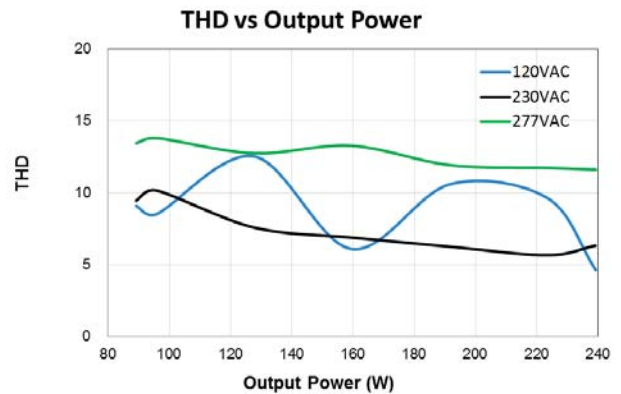
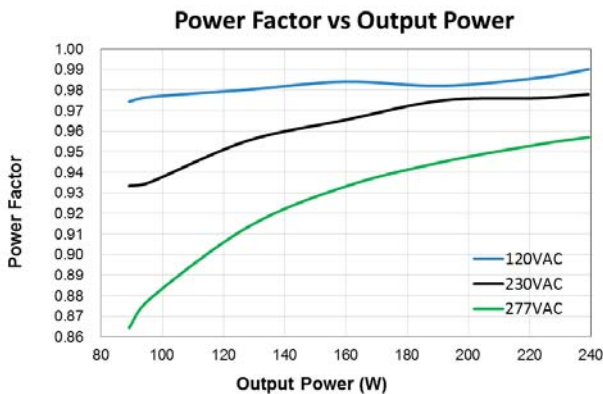
- POWER FACTOR versus OUTPUT POWER
- TOTAL HARMONIC DISTORTION versus OUTPUT POWER
- USCO-320210GA – 2100mA



- USCO-320210GA – 1400mA



- USCO-320210GA – 1050mA



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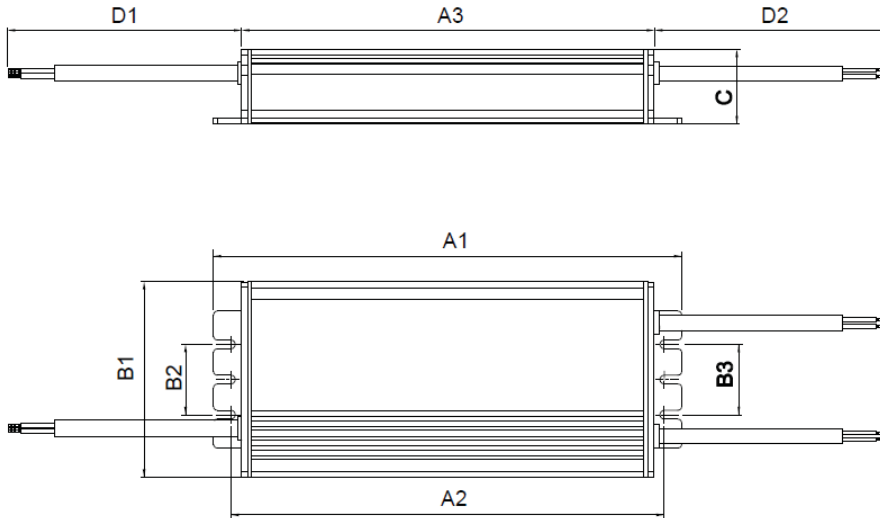


LED Drivers / LED Control Gear

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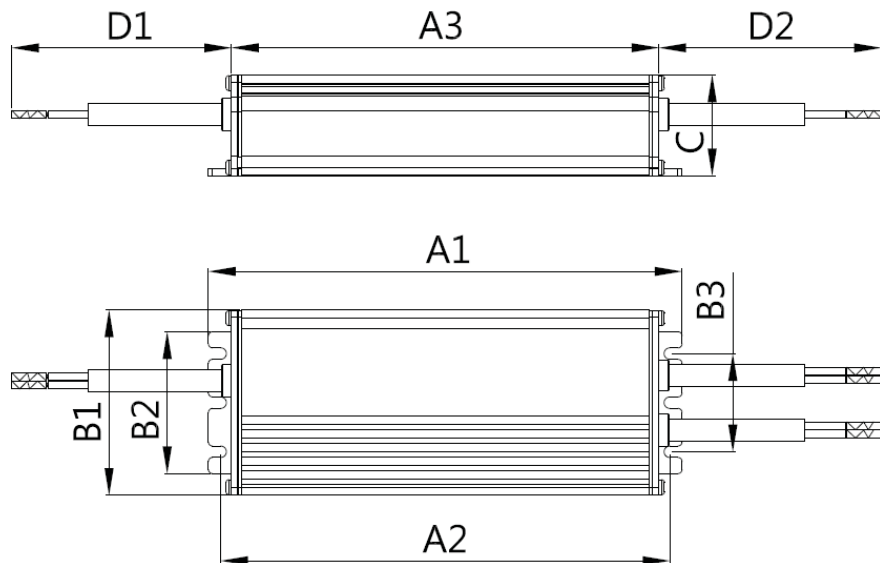
- Dimensions

- 320W



Length (A1): 240mm
 Width (B1): 100mm
 Height (C): 38mm
 Fixing hole distance (A2): 222mm
 Fixing hole distance (B2): 70mm
 Fixing hole distance (B3): 36mm
 Body length (A3): 211mm
 Input cable (D1): 300mm
 Output cable (D2): 300mm
 Dimming cable (D2): 300mm

- 250W / 200W / 150W / 100W / 75W



Length (A1):
 240mm (250W/200W);
 220mm (150W);
 174mm (100W/75W)

Width (B1): 68mm
 Height (C): 37mm

Fixing hole distance (A2):
 231mm (250W/200W);
 211mm (150W);
 165mm (100W/75W)

Fixing hole distance (B2): 52mm
 Fixing hole distance (B3): 36mm

Body length (A3):
 223mm (250W/200W);
 203mm (150W);
 157mm (100W/75W)

Input cable (D1): 300mm
 Output cable (D2): 300mm
 Dimming cable (D2): 300mm

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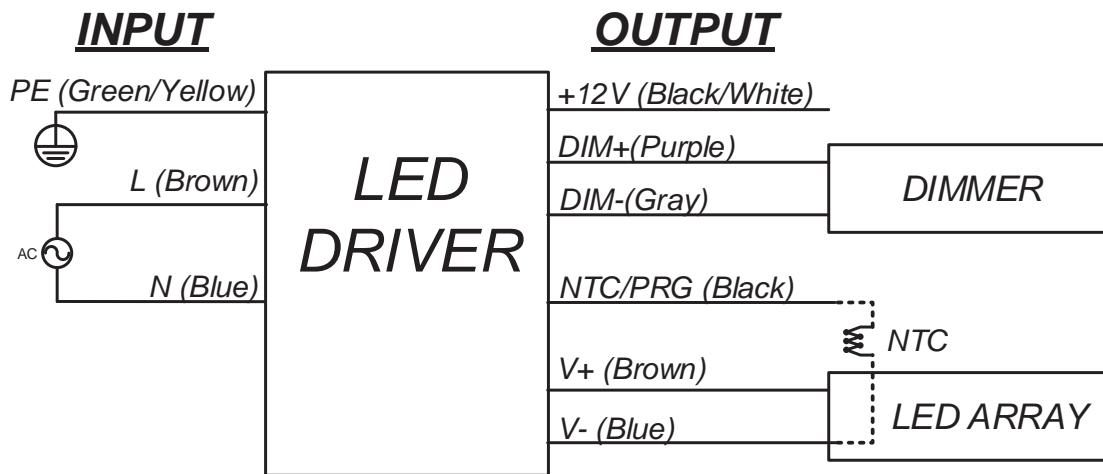
LED Drivers / LED Control Gear

USCO-PRO Series

Wiring Connection

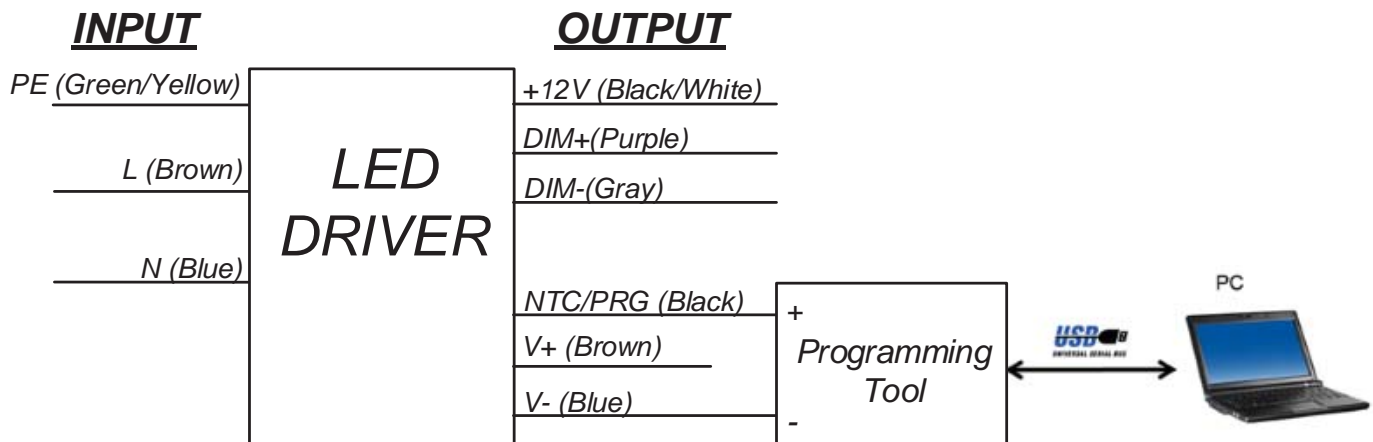
- Module Temperature Protection (MTP)

The LEDs are thermally protected by the driver's NTC (Negative Temperature Coefficient resistor) interface, which ensures the output current will be reduced when a critical temperature is reached. Connect an NTC on the LED module to the LED driver associated wires as shown in the wiring diagram below.



- Programming Setup

Programming doesn't require powering up input voltage or connecting the LED Module to the driver

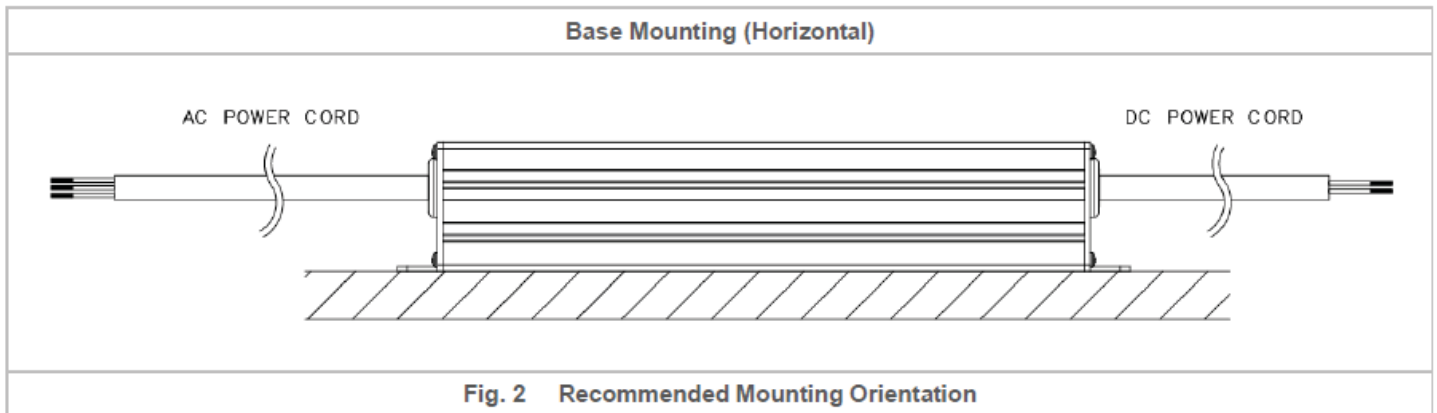


LED Drivers / LED Control Gear

USCO-PRO Series

Assembly & Installation

The device is not recommended to be placed on low thermal conductive surfaces. For example, plastics.



Safety Instructions

- ALWAYS switch mains of input power OFF before connecting and disconnecting the input voltage to the device. If mains are not turned OFF, there is risk of explosion / severe damage.
- To guarantee sufficient convection cooling, keep a distance of 50mm above and lateral distance to other units.
- DO NOT insert any objects into the device.
- When the PE terminal is not connected, the device must be installed on a metal plate with PE connection.
- The current rating for the output cable must be rated higher than or equal to the output current of the power supply. Please refer to the product specifications.
- For device with dimming function, always ensure the dimming control is working properly. "Dimming 0-10V" shall be insulated from AC mains by reinforced insulation.

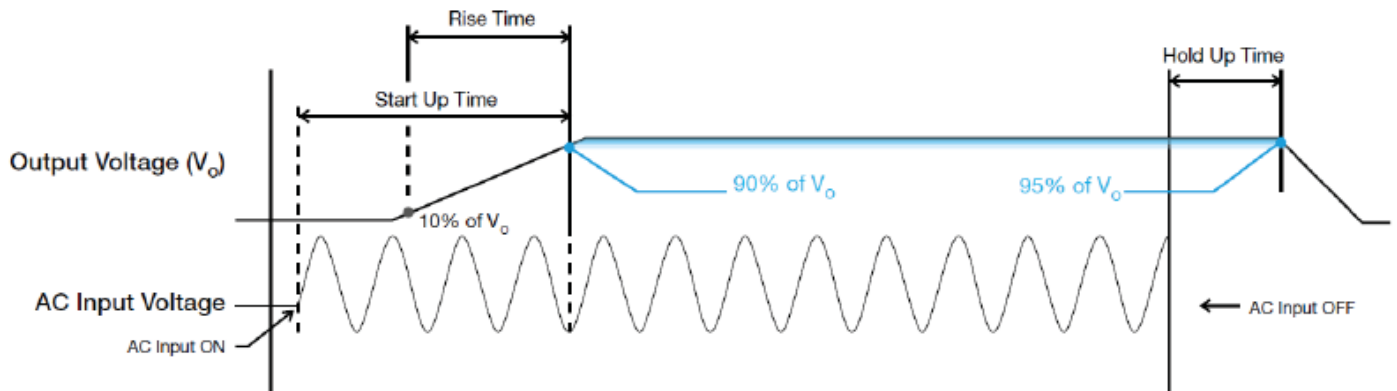
LED Drivers / LED Control Gear

USCO-PRO Series

Functions

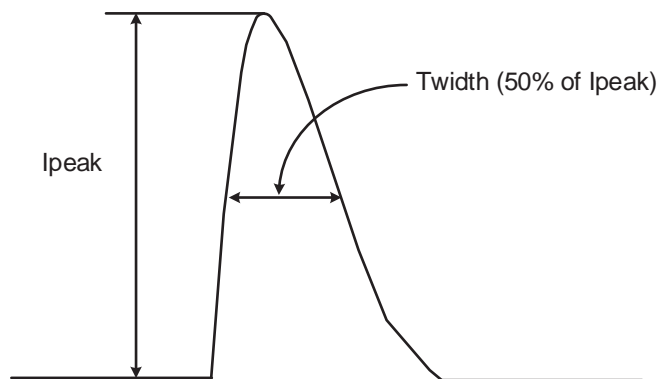
- Start-up Time
The time required for the output voltage to reach 90% of its set value, after the input voltage is applied.
- Rise Time
The time required for the output voltage to change from 10% to 90% of its set value.
- Hold-up Time
Hold up time is the time when the AC input collapses and output voltage retains regulation for a certain period of time. The time required for the output to reach 95% of its set value, after the input voltage is removed.

■ Graph illustrating the Start-up Time, Rise Time, and Hold-up Time



Inrush Current

Inrush current is the peak, instantaneous, input current measured and, occurs when the input voltage is first applied. For AC input voltages, the maximum peak value of inrush current will occur during the first half cycle of the applied AC voltage. This peak value decreases exponentially during subsequent cycles of AC voltage.



LED Drivers / LED Control Gear

USCO-PRO Series

Revision History

Change Date	Rev.	Contents	Page
2/16/2017	S00	<ul style="list-style-type: none"> Initial release 	/
5/18/2017	S01	<ul style="list-style-type: none"> Update 75/100W performance curve Updated 320W inrush current value Update 320W "OUTPUT LOAD VS AMBIENT TEMPERATURE" curve Add 320W Efficiency, PF, THD data 	2,9 2 8 11/17
9/01/2017	S02	<ul style="list-style-type: none"> Change HI-pot voltage from 3750V to 1875V 	6
9/22/2017	S03	<ul style="list-style-type: none"> Updated Operating Ambient Temperature & MTBF & Warranty life conditions Correct "LIFETIME VS AMBIENT TEMPERATURE" 	5 8