

Sino-US joint venture

40 Watt — PLD40W-56-C1500-RP REV 1.2

Constant Current LED Driver with 0-10V & PWM Dimming, with Auxiliary Output 12V/200mA

Flicker-Free, Deep Dimming, PC & RSET Programmable. Class 2 Isolated Dimming US & CN, LED Driver Class 2 UL Class P

PLD driver is a high-performance LED driver that provides smooth, continuous <1% dimming (until off) for virtually any LED fixture, whether it requires constant current or constant voltage. It is the most versatile LED driver offered today due to its compatibility with a wide variety of LED arrays, multiple form factors, and numerous control options.

Module Temperature Protection (MTP) supports thermal feedback and robust thermal manage. LED module working temperature can automatically be reduced by the PLD driver, setting by software of the output current decrease depending on the measured NTC value to avoid decreased lifetime of the LED module.

LED codes configure dimming curve, LED current and more. Programmable solution that offer ultimate design flexibility. GUI & RSET interface for programmable output current. Flexibility & SKU reduction for OEM.

Key Features

■ Drive Mode: Flicker-Free Programmable Constant Current.

■ Technology: Active PFC 2-Stage Switch Mode.

■ Input Voltage: 120 to 277 Vac, 50/60Hz.

■ Output Power: 40 Watt Max.

■ Dimming: Smooth & Continuous Deep Dimming from 0% to 100%.

LEDs turn on to any dimmed level without going to full brightness.

Constant Current Reduction (CCR) dimming methods.

0-10V / PWM: 2-wire Analog / Digital Control Dimming (Isolated, Class 2).

■ Output Voltage: 12Vdc to 56Vdc.

■ Output Current: 150mA to 1500mA (Set by resistor value Rset or GUI).

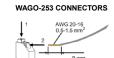
■ Efficiency: Up to 86%. ■ Warranty: 5 years.

Notice of use:

- 1. The DIM+ line can't touch the LED+ line and AC line.
- 2. LED- cannot be shorted with the DIM-.

Unit Size	Inch	Millimeter	
Case Length	4.96	126.00	
Case Width	2.41	61.20	
Case Height	0.95	24.00	
Mounting Length	4.22	107.20	
Connectors	WAGO-253 Push	Pin or equivalent	

LED wiring distance



Product Release Date: 2017.03

Product Updates Date: 2019.11.08

Special Features

- Continuous, flicker-free dimming from 100% to 1%, dim-to-off programmable, Minimum dimming programmable, Dimming curve programmable (Optional: linear, log).
- Dimming control is isolated for AC input and DC output.
- Programmable options: Output Current Soft-Start, Constant Lumen Output, End-of-life Indicator.
- Output current can be set by an GUI and an external NTC.
- Safety isolation between primary and secondary.
- A rated lifetime of 50,000 hours @ Tc = 80 °C.
- Safety: UL8750, UL1310 Class 2, CSA22.2.
- EMC: FCC 47CFR Part 15 Class A.
- Inrush Current Limiting Circuitry: AC Power Line: line to line 4 Kv/2KA 8/20us, line to earth 6 Kv/0.5KA 8/20us.
- Metal case. Used with silicone 100% potting. Meet the RoHs directive.
- IP20, NEMA1 compliant for Dry & Damp Locations.
- 100% performance tested with CHROMA 8000 system at YG factory.
- 100% burned in with program-control test system at YG factory, at 50 degrees ambient temperature.

Main Electrical Specification

Output	Output	Output	Efficie	ncy @ Max	(Load	Case Temp.	Input Current (A)		Max.	THD (%)	Weight	Envir.	
Power (W)	Voltage (V)	Current (mA)	@120V	@230V	@277V	Max °C	@120V	@230V	@277V	Input Power	@ Max Load	(Kgs)	Protection Rating
40	12 - 56	150 - 1500	85	86	84	90	0.44	0.25	0.22	47	20	0.42	UL Dry & Damp Location

Address: No. 575, 9F Gushu Road, Bao'an District, Shenzhen, Guangdong Province, China Phone: +86 755 27850656, +86 13501598118 Mr. Wu +86 755 27850525, +86 13602603460 Miss joy

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Programmable Parameters

_	Programmable Pr Parameter Min		Programmable Maximum Value	Factory Default	GUI Programmable	Notes / Conditions
Output Constant	Current (Iout)	150 mA	1500 mA	700 mA	YES	RSET Programmable
Disable Dimming		NO	YES	NO	YES	N/A
Discouries a Course	LINEAR	0%	N/A Fixed 100%	0%	YES	N/A
Dimming Curve	Dimming Curve LOG 0		N/A Fixed 100%	0%	YES	N/A
NTC Minimum Ohms		1ΚΩ	10ΚΩ	2ΚΩ	YES	N/A
NTC Minimum %	NTC Minimum %out		100%	~10%	YES	N/A
NTC Maximum O	hms	2ΚΩ	10ΚΩ	6.3ΚΩ	YES	N/A
Output Current Soft-Start N/A		N/A	N/A	OFF	YES	N/A
Constant Lumen Output		N/A	N/A	OFF	YES	N/A
End-of-life Indicat	or	N/A	N/A	OFF	YES	N/A

Input Spsecifications

Parameter	Min.	Тур.	Max.	Notes / Conditions
Input Voltage	108 Vac		305 Vac	120, 230, 240, 277 Vac Nominal Values
Input Frequency	47 Hz	50/60 Hz	63 Hz	50/60 Hz Nominal
Input AC Current			0.44 A	Measured at 120 Vac / 60Hz Input, Output Full Load
			0.25 A	Measured at 230 Vac / 50Hz Input, Output Full Load
			0.22 A	Measured at 277 Vac / 60Hz Input, Output Full Load
In much Ourse at (Do als)		38 A / 2uS	43 A / 3uS	Measured at 120 Vac / 60Hz Input, Output Full Load
Inrush Current (Peak)		57 A / 2uS	62 A / 3uS	Measured at 277 Vac / 60Hz Input, Output Full Load
Laskana Cumant		300 μΑ	350 µA	Measured at 120 Vac / 60Hz Input, Output Full Load
Leakage Current		700 µA	750 µA	Measured at 277 Vac / 60Hz Input, Output Full Load
THD			20%	Measured at 120, 230, 277 Vac Input, Output ≥ 25% Load
Power Factor (PF)	0.90			The working window that meets the DLC standard sees the curve on page 5.

Output Spsecifications

Parameter	Min.	Тур.	Max.	Notes / Conditions
DC Output Voltage	12V		56V	The maximum output current is 1500mA, the output voltage at 27V.
Output Voltage (max.)			59V	Measured at 120-277 Vac / 60Hz Input, Output no Load.
Output Constant Current	150 mA		1500 mA	The maximum output voltage is 56V, output current in 700mA.
Output Power	4W		40W	Voltage Foldback, Power operation window see the curve on page 5.
Flickering Index (Vpk-pk)			3% Vo	Full load. 20MHz BW, Full load output in parallel with 0.1uF & 10uF CAP.
Flickering Index (lpk-pk)			5% lo	Flickering Index is defined as [(Ymax-Ymin)/(Ymax+Ymin)] * 100%. Y may be V or I
Line Regulation	-3%		+3%	Measured at 120-277 Vac / 60Hz Input, Output Full Load
Load Regulation	-4%		+4%	Measured at 120, 230, 277 Vac / 60Hz Input
Chart up Time		300 ms	500 ms	Measured at 120 Vac / 60Hz Input, Output Full Load
Start-up Time		200 ms	400 ms	Measured at 277 Vac / 60Hz Input, Output Full Load
Output Overshoot	-2%		+5%	Measured at 120, 230, 277 Vac Input, When power on or off
Hold-up Time		10ms		Typical @ 277 Vac Input, Output Full Load

Protection Spsecifications

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Parameter	Min.	Тур.	Max.	Notes / Conditions
Output Short Circuit (SCP)				No Damage. Auto recovery after short is removed.
Output Over Current (OCP)			+8% lo	Constant Current Limiting circuit.
Output Over Voltage (OVP)			120% Vo	No Damage. Auto recovery after short is removed.
Output Power Limit (OPL)			40W	Voltage Foldback.
Temperature Protection (OTP)	95°C		110°C	At Tc from 95 to 110, the output current decreases linearly from maximum to zero.

Dimming Spsecifications

Items	Parameter	Min.	Тур.	Max.	Notes / Conditions
40\/ Auvilians Output	Output Voltage	10.8 V	12.0 V	13.2 V	Yellow Wire
12V Auxiliary Output	Output Current	0 mA	100 mA	200 mA	Yellow Wire
	Input Absolute Voltage	-2.0 V	10 V	15 V	Purple Wire
	Output Source Current	0.1 mA	1.2 mA	2.0 mA	Purple Wire
0-10V Dimming	Output Current Range in 0-10V Dimming	0%		100%	CCR output
	Output Current in 0-10V Pin Open		Normal		It's a constant current output with active PFC.
	Output Current in 0-10V Pin Short Circuit		0		CCR output
	Input Absolute Voltage	-2.0 V	10 V	15 V	
	Input Current on PWM pin	0.1 mA	1.2 mA	2.0 mA	
	PWM Frequency	200 Hz		3 KHz	
PWM Dimming	PWM Duty	0 %		100%	
	Output Current Range in PWM Dimming	0%		100%	CCR output
	Output Current in PWM Pin Open		Normal		It's a constant current output with active PFC.
	Output Current in PWM Pin Short Circuit		0		CCR output
0-10V & PWM Dimming	Compatible dimming function: 0-10V and PW	/M dimming.			

Programmable Spsecifications

Parameter	Min.	Тур.	Max.	Notes / Conditions
Port				PC_SET
Resistance Value	0 Ω	8.2 KΩ	> 8.2 KΩ	Between RSET and GND.
Setting Output Current	150mA	1500mA	1500mA	The output voltage is automatically limited.
PC_SET Max.		1500mA		Setting Output Current Value, Dimming range is min to 1500mA.
PC_SET Min.	150mA			Setting Output Current Value, It is min.
PC_SET Voltage	0		5V	

NTC Control Spsecifications

Parameter	Min.	Тур.	Max.	Notes / Conditions
Port				NTC
NTC Resistance Value	0 Ω	15 ΚΩ	> 15 KΩ	Between NTC and GND. NTC=15 KΩ±2%, B25/85=3700.
Controlling Output Current	150mA	1500mA	1500mA	Max dimming current is limited by NTC.
NTC Open Circuit	1500mA			
NTC Short Circuit	150mA			
NTC Voltage	0		5V	

General Spsecifications

Parameter	Min.	Тур.	Max.	Notes / Conditions
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Cooling	Convection	
MTBF	362,000 hours	For 12V output model, measured at 120 Vac input, 100%Load and Tc=80° C
Life Time	50,000 hours	(MIL-HDBK-217F).

Environmental Spsecifications

Parameter	Min.	Тур.	Max.	Notes / Conditions
Case Temperature (Tc)	-30 °C		+90 °C	Measured at location specified on case.
Operating Temperature (Ta)	-30 °C		+55 °C	This is a reference range. Tc controls temperature range.
Storage Temperature (Ts)	-40 °C		+100 °C	Non operating temperature range.
Operating Humidity			90% RH	Relative Humidity. Non-condensing.
Vibration	5 Hz		55 Hz	2G, 10 minutes / 1 cycle, period 30 minutes, each along X, Y, Z axis.

Safety Compliance

Safety Category	Safety Category Standards / Notes	
UL / cUL	UL8750, CSA C22.2 NO.250.13, US & CN LED Driver Class 2 , UL CLASS P	
Withstand Voltage	Input to Output: 2KV	
Output / Dim	2.5KV	
Enclosure / Ground - Input & output / NTC & Dim	2.0KV	
Isolation Resistance	Input to Output: >10MΩ, 500Vdc @ 25°C, 70% RH	
Aux Circuit	Aux Circuit Aux is Isolated from AC Input and DC Output.	
0-10V Class 2 Isolated Dimming	DIM+ (Purple) / DIM- (Grey) are Class 2 Isolated from AC Input and DC Output.	
FG	FG Input ground. It is a safety ground.	

EMC Compliance

EMI Category	Standards	
FCC	FCC 47CFR Part 15 Class A, ANSI C63.4: 2009	
Energy Star	Energy Star transient protection: Driver shall comply with ANSI/IEEE C62.41.1-2002 and ANSI/IEEE C62.41.2-2002 0.5 µs 100 kHz Ring, 6kV/0.2kA, L-N, L-G, LN-G (10 strikes)	
EMS Category	Notes	
EN 61000-4-2	Electrostatic Discharge (ESD): 8 kV air discharge, 4 kV contact discharge	
EN 61000-4-3	Radio-Frequency Electromagnetic Field Susceptibility Test-RS	
EN 61000-4-4	Electrical Fast Transient / Burst-EFT	
EN 61000-4-5	Surge Immunity Test: ANSI/IEEE C62.41.2-2002 1.2/50µs and 8/20µs Combination, 4kV/2kA, L-N (10 strikes). 1.2/50µs and 8/20µs Combination, 6kV/0.5kA, L-G, LN-G (10 strikes).	
EN 61000-4-6	Conducted Radio Frequency Disturbances Test-CS	
EN 61547	Electromagnetic Immunity Requirements Applies To Lighting Equipment	

Note: the above test data are in the condition of 25 C ambient temperature, except for the marked temperature.

Typical Applications

■. Constant Current Driver with programmable.

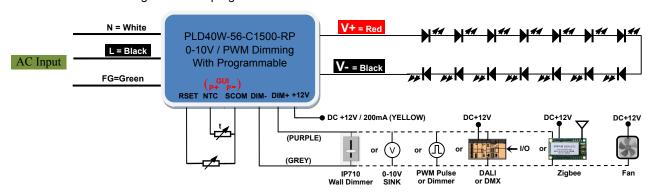


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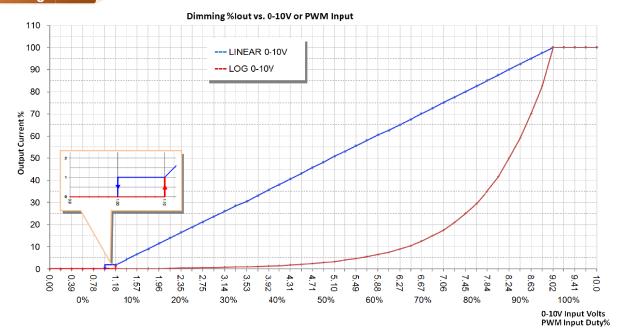
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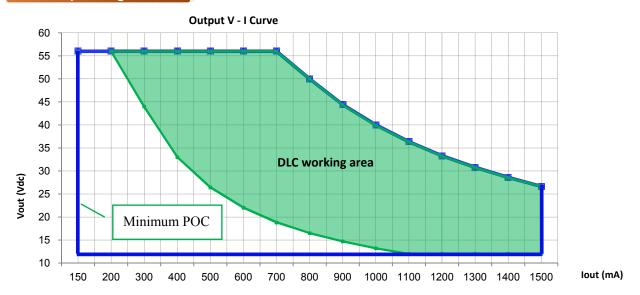
■. 0-10V or PWM Dimming Driver with programmable.



Dimming Curve



Power Operating Window



Note: When the output current is set, the output voltage is automatically limited within the curves.

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POC (Programmable Output Current)

Set by Resistor Value "RSET" or using YG Programmer USB interface & YG PC based GUI Software.

Programmable Output Current: 150 – 1500mA. Power limited to 40W maximum by Voltage fold-back.

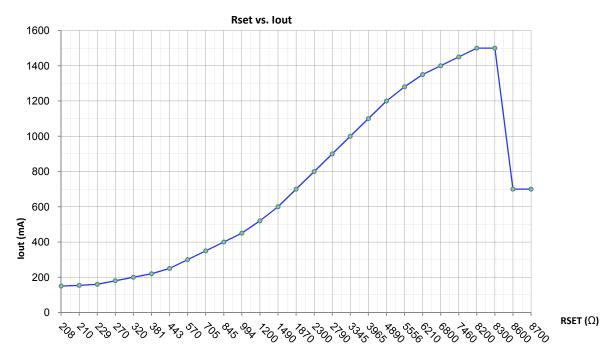
When RSET is open (no resistor present) then GUI controls programmed output current.

Factory Default: GUI set to 700mA with RSET Open.

Output Current vs. RSET value is within +/-5%

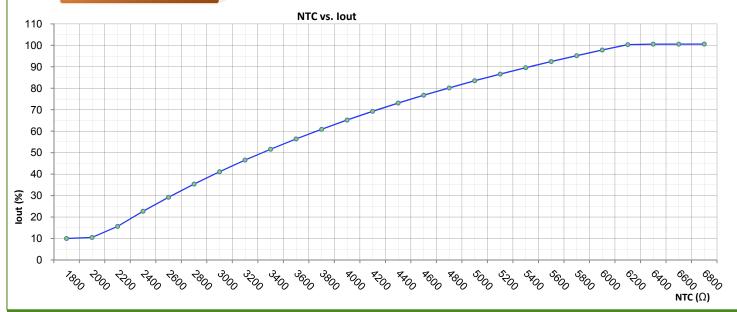
RSET can be any >=1/4W, +-1%, >=20V rated resistor.

RSET (Ω) (mA) 208 150 210 154 229 160 270 180 320 200 381 220 443 250 570 300 705 350 845 400 994 450 1150 500 1490 600 1870 700 2300 800 2790 900 3345 1000 3965 1100 4890 1200 5556 1280 6210 1350 6800 1400 7460 1450 8200 1500 8300 GUI set		
208 150 210 154 229 160 270 180 320 200 381 220 443 250 570 300 705 350 845 400 994 450 1150 500 1490 600 1870 700 2300 800 2790 900 3345 1000 3965 1100 4890 1200 5556 1280 6210 1350 6800 1400 7460 1450 8200 1500 8300 1500	RSET	lout
210 154 229 160 270 180 320 200 381 220 443 250 570 300 705 350 845 400 994 450 1150 500 1490 600 1870 700 2300 800 2790 900 3345 1000 3965 1100 4890 1200 5556 1280 6210 1350 6800 1400 7460 1450 8200 1500 8300 1500	(Ω)	(mA)
229 160 270 180 320 200 381 220 443 250 570 300 705 350 845 400 994 450 1150 500 1490 600 1870 700 2300 800 2790 900 3345 1000 3965 1100 4890 1200 5556 1280 6210 1350 6800 1400 7460 1450 8200 1500 8300 1500	208	150
270 180 320 200 381 220 443 250 570 300 705 350 845 400 994 450 1150 500 1490 600 1870 700 2300 800 2790 900 3345 1000 3965 1100 4890 1200 5556 1280 6210 1350 6800 1400 7460 1450 8200 1500 8300 1500	210	154
320 200 381 220 443 250 570 300 705 350 845 400 994 450 1150 500 1490 600 1870 700 2300 800 2790 900 3345 1000 3965 1100 4890 1200 5556 1280 6210 1350 6800 1400 7460 1450 8200 1500 8300 1500	229	160
381 220 443 250 570 300 705 350 845 400 994 450 1150 500 1490 600 1870 700 2300 800 2790 900 3345 1000 3965 1100 4890 1200 5556 1280 6210 1350 6800 1400 7460 1450 8200 1500 8300 1500	270	180
443 250 570 300 705 350 845 400 994 450 1150 500 1490 600 1870 700 2300 800 2790 900 3345 1000 3965 1100 4890 1200 5556 1280 6210 1350 6800 1400 7460 1450 8200 1500 8300 1500	320	200
570 300 705 350 845 400 994 450 1150 500 1490 600 1870 700 2300 800 2790 900 3345 1000 3965 1100 4890 1200 5556 1280 6210 1350 6800 1400 7460 1450 8200 1500 8300 1500	381	220
705 350 845 400 994 450 1150 500 1490 600 1870 700 2300 800 2790 900 3345 1000 3965 1100 4890 1200 5556 1280 6210 1350 6800 1400 7460 1450 8200 1500 8300 1500	443	250
845 400 994 450 1150 500 1490 600 1870 700 2300 800 2790 900 3345 1000 3965 1100 4890 1200 5556 1280 6210 1350 6800 1400 7460 1450 8200 1500 8300 1500	570	300
994 450 1150 500 1490 600 1870 700 2300 800 2790 900 3345 1000 3965 1100 4890 1200 5556 1280 6210 1350 6800 1400 7460 1450 8200 1500	705	350
1150 500 1490 600 1870 700 2300 800 2790 900 3345 1000 3965 1100 4890 1200 5556 1280 6210 1350 6800 1400 7460 1450 8200 1500 8300 1500	845	400
1490 600 1870 700 2300 800 2790 900 3345 1000 3965 1100 4890 1200 5556 1280 6210 1350 6800 1400 7460 1450 8200 1500 8300 1500	994	450
1870 700 2300 800 2790 900 3345 1000 3965 1100 4890 1200 5556 1280 6210 1350 6800 1400 7460 1450 8200 1500 8300 1500	1150	500
2300 800 2790 900 3345 1000 3965 1100 4890 1200 5556 1280 6210 1350 6800 1400 7460 1450 8200 1500 8300 1500	1490	600
2790 900 3345 1000 3965 1100 4890 1200 5556 1280 6210 1350 6800 1400 7460 1450 8200 1500 8300 1500	1870	700
3345 1000 3965 1100 4890 1200 5556 1280 6210 1350 6800 1400 7460 1450 8200 1500 8300 1500	2300	800
3965 1100 4890 1200 5556 1280 6210 1350 6800 1400 7460 1450 8200 1500 8300 1500	2790	900
4890 1200 5556 1280 6210 1350 6800 1400 7460 1450 8200 1500 8300 1500	3345	1000
5556 1280 6210 1350 6800 1400 7460 1450 8200 1500 8300 1500	3965	1100
6210 1350 6800 1400 7460 1450 8200 1500 8300 1500	4890	1200
6800 1400 7460 1450 8200 1500 8300 1500	5556	1280
7460 1450 8200 1500 8300 1500	6210	1350
8200 1500 8300 1500	6800	1400
8300 1500	7460	1450
	8200	1500
≥8300 GUI set	8300	1500
	≥8300	GUI set



Note: The value of NTC is above 6.2K, NTC does not control the output current. RSET > 8600 Ohms will default lout to GUI setting.

NTC Current Control

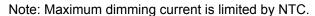


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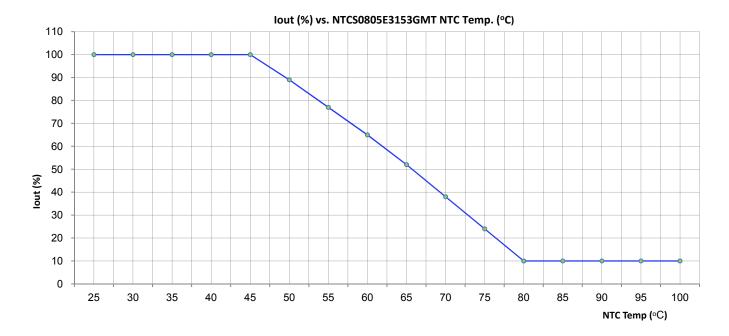
NTC values, NTC High, NTC Low and NTC Minimum lout can be programmed.

Using YG Programmer USB interface & YG PC based GUI Software.

Default: NTC Low = 2.0K ~ 10% lout, NTC High = 6.3K, 100% lout.

Module Temperature Protection Example

NTC = 0805SMD, R_{25C} = 15K Ohms $\pm 2\%$, R_{64C} = 3700, Vishay Part#: NTCS0805E3153GMT



YG Programmer PC Based Software, USB Interface

Programmable Output Current (POC): Programmable lout from 150mA to 1500mA. Programmable Minimum Dim Level: 0% (OFF) to 100% lout programmed value.

Programming Tool:

The YG Programmer is a programming and configuration tool for YG intelligent programmable LED drivers. It consists of the YG programmer which is connected between the USB port of a computer and the LED driver being programmed, and the YG programmer software. The YG programmer software is a PC based graphical user interface that allows the user to program and configure the operating parameters of an YG Programmable LED Driver. This interface allows the operator to set the LED drivers output current within its specified range. In the increments specified. It also provides the ability to enable/disable and control features like "Dimming", "Auxiliary Output", "Constant Lumen Module" & "End-of-life indicator" when available in the YG intelligent LED driver being programmed.

YG Programmer:

Is the physical USB unit connected between the USB port of a computer and the LED driver being programmed? This unit also provides all power required to the LED driver being programmed. No connection to an AC power source is required for programming the LED driver.

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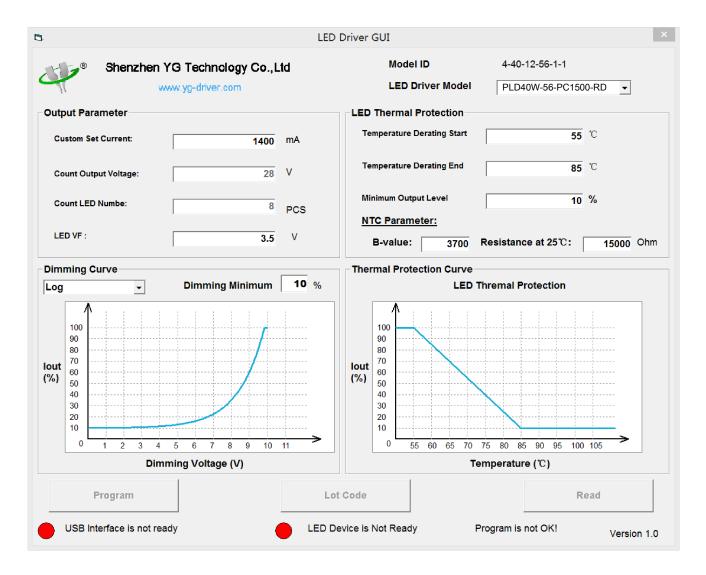
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YG Programmer Software:

The YG Programmer software is the windows based GUI that allows the user to assign custom part number(s) to the LED driver being programmed. The user can then save the profile to a computer disk and recall as need. The user can then use the "Auto Program" feature to quickly program as many LED drivers with the saved profile as is required. Each driver programming simply requires a click of the mouse to program in a single step.

The YG Programmer software supports bar code scanners. The barcode scanner can be used to automate the programming of the attached LED driver. The barcodes scanner interface also provides an option to either enable or disable logging of the parameters to an excel file.

Note: The programming of the LED driver does not require the input be connected to an AC power connection. The YG Programmer and the required LED driver circuitry will be powered from the YG Programmer module via the USB connection to a computer.



Custom designs available.

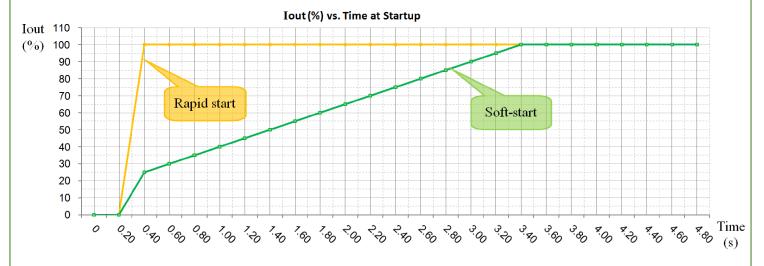
Please consult with the factory.

Specifications subject to change without notice.

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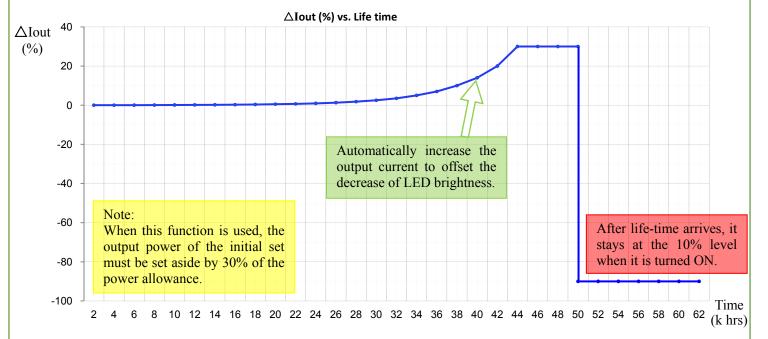
Output Current Soft-start

Output current soft-start are programmable (enable/disable) features. The default mode for features is disabled for out-of-the-box products. If these features are required, they must be checked ON in the programming software.



Constant Lumen Module

The Constant Lumen Module feature of the PLD40W helps to maintain the required lumen output of the fixture at a constant level throughout its lifetime. In general LED's lumen output will depreciate over time and in order to maintain sufficient light level towards the end of lifetime, the LED's are driven at high current initially and will result in more energy consumption. The constant lumen module will give the flexibility to drive the LEDs at optimal driving current throughout its lifetime. This helps in energy savings, constant light output and enhanced reliability of the system.



Note: A detailed step-by-step instructions are outlined in the Help section of the YG Programmer software.

End-of-Life Indicator

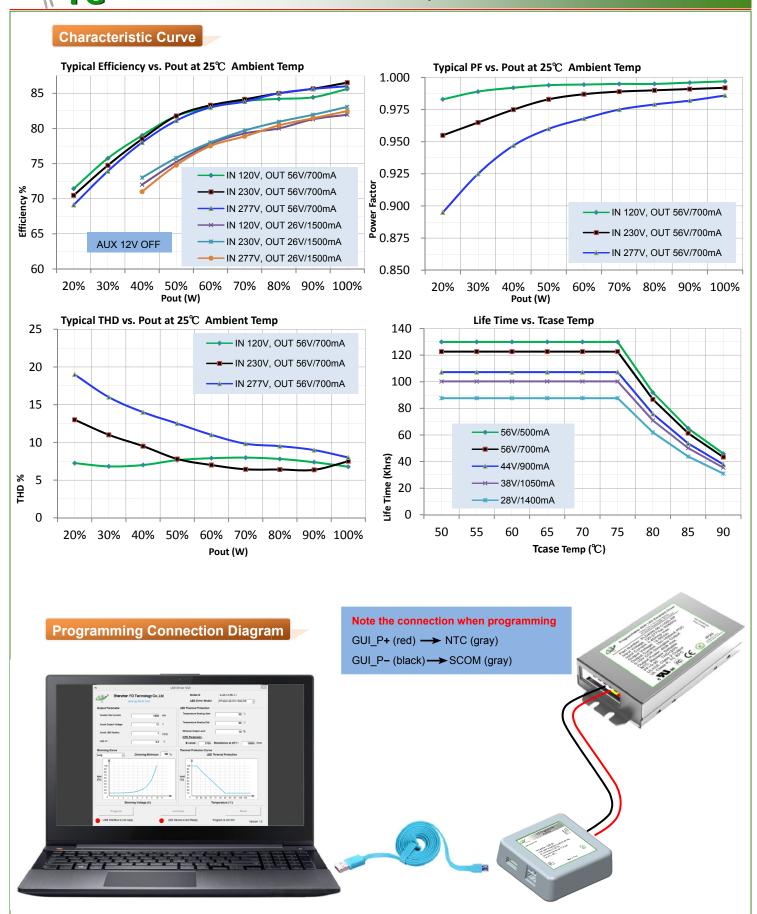
The End-of-Life indicator helps the end user to receive a signal from the fixture indicating that it has reached its programmed life-time. After the LED driver reaches the programmed life-time, whenever it is turned ON, it stays at 'Dim' level (10%).

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Installation

Metal shell;

AC input for connection the WAGO-253-3P connectors:

DC output for connection the WAGO-253-2P connectors;

0-10V dimming input for the two WAGO-253-2P connectors;

Other control for the WAGO-253-3P connectors:

This product has two Φ5.0mm mounting holes.

Order ID

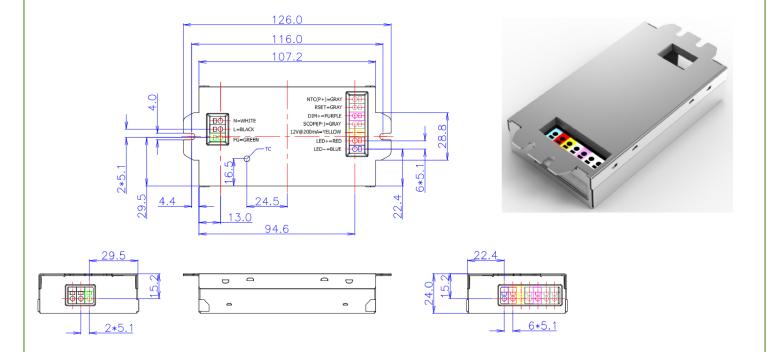
P/N 1: PLD40W-56-C1500

Description: 40W, 56Vdc voltage max, constant current 1500mA max, constant current mode.

P/N 2: PLD40W-56-C1500-RP

Description: 40W, 56Vdc voltage max, constant current 1500mA max, 0-10V or PWM dimming mode.

Product Size



Note:

- The independent LED drive conforms to the EMC standard. But it is not guaranteed to be qualified, when the drive is mounted in the LED lamp.
- Please forgive us for any discrepancy due to the update of the specifications or the upgrade of the product. If you need the latest information, please contact our marketing department.

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Product Release Date: 2017.03 Product Updates Date: 2019.11.08

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