EULP96D4S-1WNC

Advantages

- Enable interoperability with diverse wireless sensors/network systems
- Reduce complexity and cost of fixture by eliminating auxiliary components ordinarily re quired for powering sensors, switching fixture off and monitoring energy use
- interface to any suitable sensor and ease of adjustable drive current

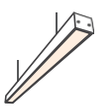
Product Feature

- Standard-compliant (DiiA) digital interface including:
- Integrated DALI bus power supply (Part 250)
- Memory Bank 1 extension, Energy Monitoring and Diagnostics (Parts 251, 252, 253)
- Energy metering and advanced diagnostics
- Continuous dimming down to 1%
- Drive current setting via NFC wireless programming
- 5-year limited warranty

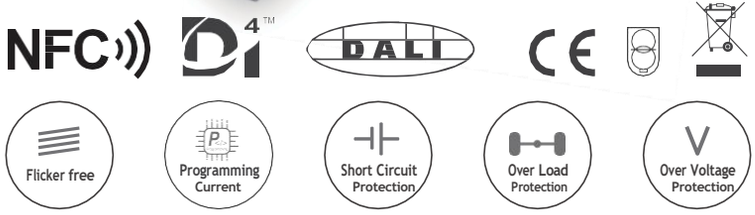
Programming

Adjustable Light Output (ALO)
Adjustable Output Current (AOC)
Luminaire Maintenance
Luminaire Information

Application



Linear light

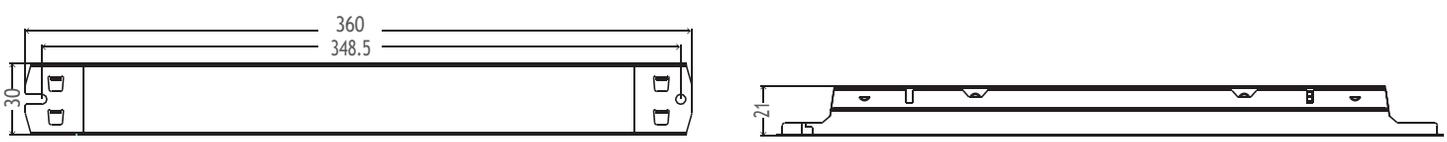


Technical Parameters

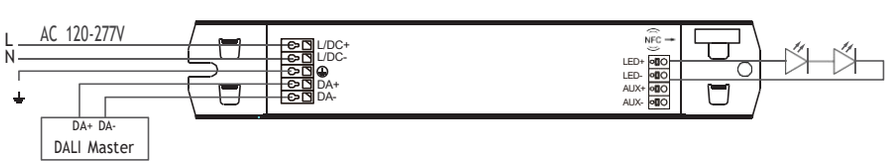
Model	EULP96D4S-1WNC	
Input	Rated Voltage	120-277 VAC/145~277VDC
	Frequency Range(Hz)	50/60Hz
	Efficiency	≥88%@120VAC , ≥90%@230VAC, ≥90%277VAC full load Auxiliary power supply unloaded
	Power Factor	≥0.95@ full load
	current	1Amax@120VAC, 0.5Amax@230VAC, 0.5Amax@270VAC
	THD	<10%@120-277VAC, full load
	Inrush Current(max)	Cold start,30A@120VAC 170us; 58A@230VAC 170us; 65A@277VAC 170us
	Standby power	≤1W
	No load powe	≤1W
	Turn on delay Time	<0.75s, @120Vac(When the light begins to shine)
Output	channel	1
	Voltage	9-54V
	Current	100-2800mA(NFC Set Current) (Default current:700mA)
	Output Voitage	9-54V
	Power	96W
	Current Accuracy	±5%; 700-500mA current accuracy ±7%; < 500mA current accuracy ±10%
	Ripple current	5%
	No load output voltage	60V max
Aux Output	Output Voltage	24V±5%
	Output Power	3W
	Output Current	125mA
	No load output voltage	25V MAX
	Ripple Voltage	≤1V
Function	Dimming type	DALI 2.0 D4i (EN62386-250, 251, 252, 253, 150)
	Dimming range	1%-100% (Io≥400mA)
	Dimming curve	Logarithmic or Linear (NFC default logarithmic setting)
	Flicker	Flicker free

Protection	Short circuit	Short circuit without output, troubleshooting results in normal output
	Over load	Reduce current hiccup protection, troubleshoot and output normally
	Over Voltage	Reduce current hiccup protection, troubleshoot and output normally
Safety& EMC	Surge	L-N 1000VAC L-N-PG: 2000VAC
	Withstand Voltage	I/P-O/P:3000Vac/1min/<5mA, I/P-PG:1500Vac/1min/<5mA, O/P-PG:500Vac/1min/<5mA, O/P-DALI/AUX:1500Vac/1min/<5mA
	Safety standards	UL8750,EN61347-1,EN61347-2-13
	EMC Eission	EN55015,FCC class B(120V)/class A(277V)
	Insulation Resisance	5Mfi
Others	Working Temp.	-20℃~+50℃ (-4°F~122°F)
	Storage Temp., Humidity	-40℃~85℃, 20%-90%RH (-40°F~185°F)
	tc	80℃(176°F)
	Material	Metal
	IP Rating	IP20
	Lifetime	50,000h@tc:80℃ (176°F)
	Warranty Condition	5years
	Switch Cycle	>25,000 times
	Dimension	360*30*21mm (14.17*1.18*0.827 Inch) (L*W*H)
	Packing(weight)	Net weight:350g(0.771 lb)±5%/PCS; 50PCS/Carton; 17.5kg(38.58 lb)±5%/Carton; Carton Size: 377*333*141mm (14.84*13.11*5.55 Inch)(L*W*H)

Dimension(mm)

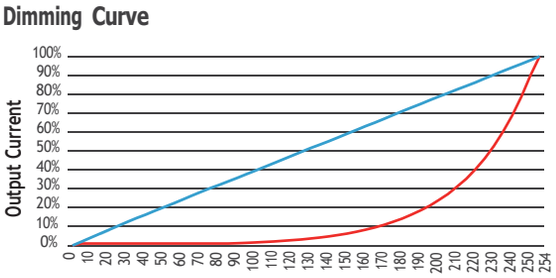


Wiring Diagram



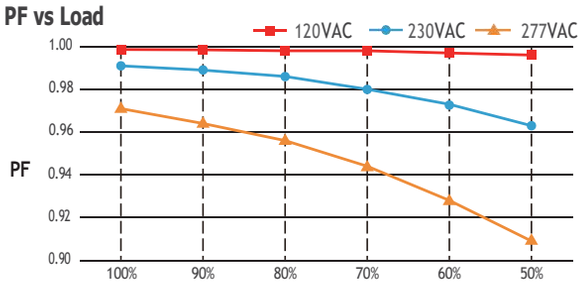
DALI Signal Input

Dimming Curve



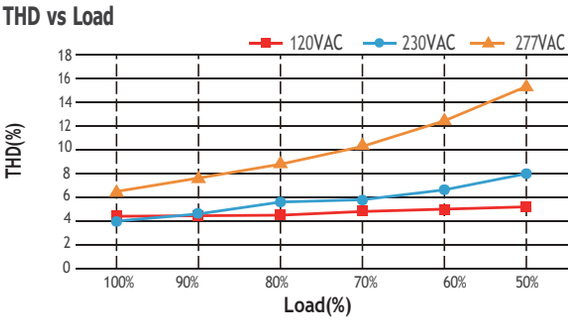
DALI Dimming Level

PF vs Load

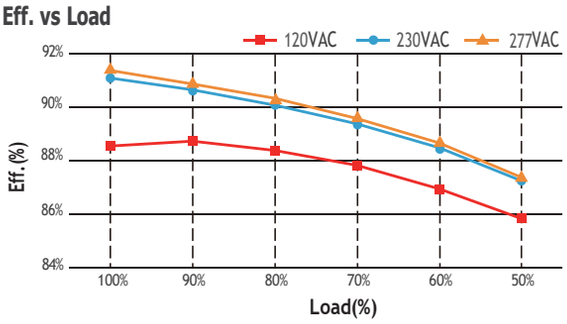


Load(%)

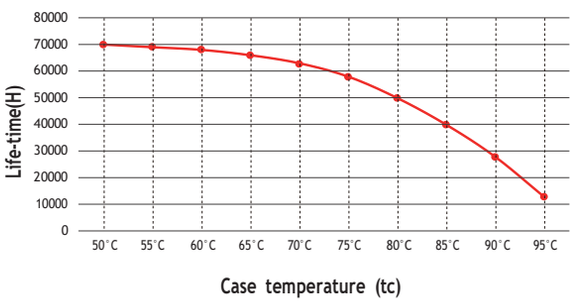
THD vs Load



Eff. vs Load

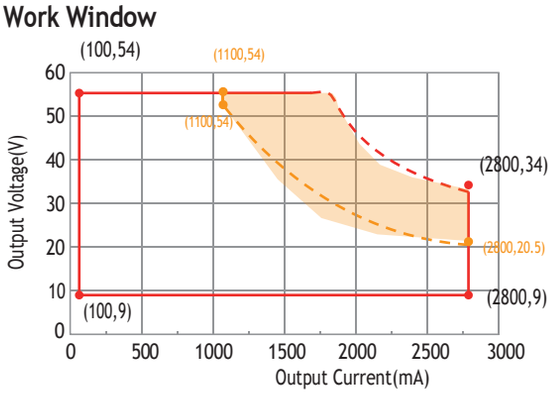


Life-time vs. case temperature



The life-time of the led driver is shown in the figure above
(calculated based on the 90% survival rate).
The relation of tc ta temperature depends also on the luminaire design.

Work Window



Input voltage
PF>0.9 和 THD<20% @277V

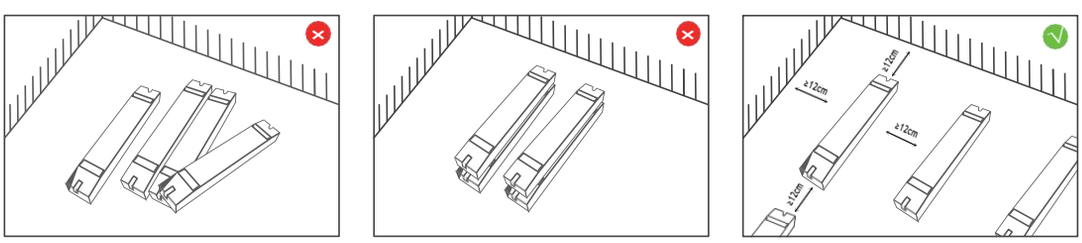
Adjustable output current

The current can be adjusted through a programmer, with a range of 100-1400mA and a minimum adjustment current of 1mA. Example: 100mA/102mA/103mA~~2800mA.

The table provides examples of partial currents:

Output Current	100mA	500mA	1000mA	1500mA	2000mA	2500mA	2800mA
Output Voltage	9-54VDC	9-54VDC	9-54VDC	9-54VDC	9-48VDC	9-38VDC	9-34VDC
Output Power	5.4W	27W	54W	81W	96W	95W	95.2W

Installation Precautions



Please do not stack the products. The distance between two products should be>12cm so as not to affect heat dissipation and the lifespan of the products.

Max. quantity of drivers per miniature circuit breaker

Specification item	Value	Value	Value	Condition
Inrush current I_{peak}	30A (120VAC)	58A (230VAC)	65A (277VAC)	Input Voltage120VAC/230VAC/277VAC
Inrush current T_{width}	170us (120VAC)	170us (230VAC)	170us (277VAC)	Input Voltage120VAC/230VAC/277VAC, measured ta 50% I_{peak}

MCB	Input Voltage 120VAC Drivers	Input Voltage 230VAC Drivers	Input Voltage 277VAC Drivers	MCB	Input Voltage 120VAC Drivers	Input Voltage 230VAC Drivers	Input Voltage 277VAC Drivers
B10	10pcs	8pcs	7pcs	C10	10pcs	13pcs	12pcs
B13	13pcs	10pcs	9pcs	C13	13pcs	18pcs	16pcs
B16	16pcs	13pcs	11pcs	C16	16pcs	22pcs	19pcs
B20	20pcs	16pcs	14pcs	C20	20pcs	27pcs	24pcs
				D16	16pcs	32pcs	32pcs

Cautions

This product must be installed and adjusted by a qualified professional.		
1	Confirmation of installation conditions	· **Waterproof and Protection:** Install in a suitable location according to the waterproof and protection requirements of the power supply. Products without waterproof function should be protected from direct sunlight and rain. When installing outdoors, please use a waterproof box for protection. · **Heat dissipation requirements:** The drive power supply should avoid exposure to high temperature environments. Please ensure that the working environment temperature is within the recommended range. To ensure proper heat dissipation of the drive power supply, a well ventilated area should be selected for installation. Good heat dissipation conditions can help extend product lifespan.
2	Power check	· Before use, check the product parameters and confirm that the output voltage and current of the LED power supply meet the requirements
3	Safe wiring	· Use cables that meet the specifications to ensure that the cross-section of the wire matches the requirements of the driving power supply. Solid cables typically measuring 0.75-2.5 mm^2, (Please refer to the silk screen printing or wiring diagram in the instruction manual for specific wire diameter requirements). · If the power supply (metal casing) is installed on a grounded lighting component or equipment, the power supply needs to be grounded.
4	Wiring confirmation	· Before power on debugging, ensure that the wiring is secure and avoid poor contact to prevent unstable current or equipment damage.
5	Repair suggestions	· If the product malfunctions, please do not repair it without authorization. If you have any questions, please contact the supplier or sales team for assistance.

※ The contents of this manual are updated without prior notice. If the function of the product you are using is inconsistent with the instructions,the function of the product shall prevail. Please contact us if you have any questions .

Warranty Agreement

1. Warranty periods from the date of delivery : 5 years.
2. Free repair or replacement services for quality problems are provided within warranty periods.

Warranty exclusions below:

The following situations are not covered by the free warranty or replacement service:

1. Exceeding the warranty period.
2. Damage caused by human factors such as high voltage, overload, and improper operation.
3. The appearance of the product is severely damaged or deformed.
4. Normal wear and tear or aging during regular product use.
5. Damage caused by natural disasters or force majeure factors.
6. The quality inspection label of the product is damaged (QC PASS).
7. No contract or valid invoice proof signed with EUCHIPS has been provided.

※Remedies: Repair or replacement is the only remedy provided by EUCHIPS to the customer, and EUCHIPS shall not be liable for incidental damages arising from repair or replacement, unless within the scope of applicable law.

※Adjustment of Warranty Terms: EUCHIPS reserves the right to modify or adjust the warranty terms, which shall be published in writing.