EULP60ATS-1WPC-WS-1200

Product Features

- Single channel output, output current can be Programmable by software
- Support 0/1-10V ,Potentiometer,PWM,Triac/ELV Dimming
- TRIAC and ELV dimming at 120 Vac only
- Protections: Overload, Overvoltage and short-circuit
- UL Class P, Class 2 Output
- Safety according to UL8750 & UL 1310
- Suitable for Dry , Damp Locations
- Suitable for indoor LED lighting application

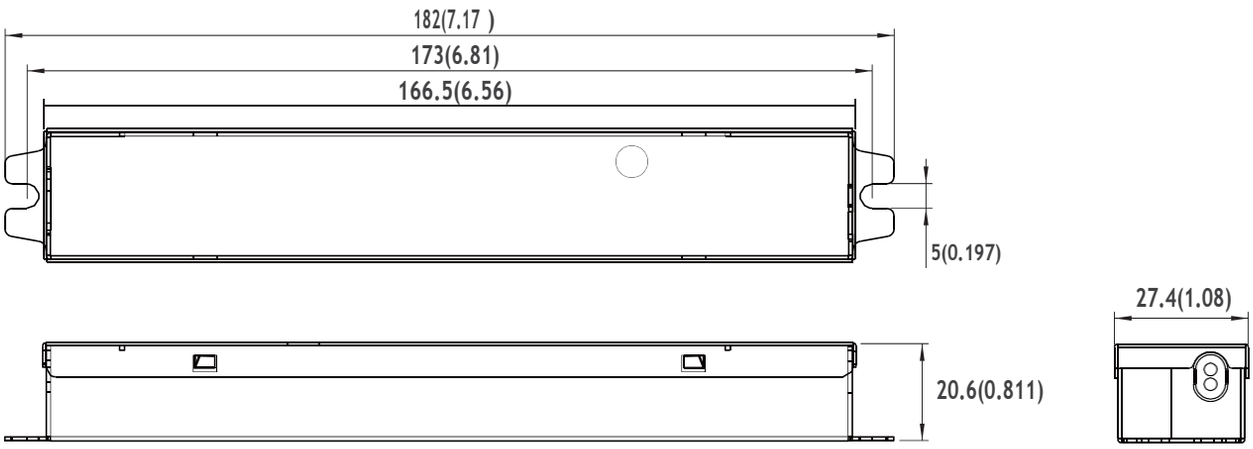
Application

Down Light

Technical Parameters

Model	EULP60ATS-1WPC-WS-1200	
Input	Efficiency	>84%@120VAC, >86%@277VAC Full load
	Frequency	50-60Hz
	Voltage	120VAC-277VAC
	PF	0.95@120VAC, 0.9@277VAC, Full load
	THD(full load)	10%@120VAC, 15%@277VAC, Full load
	Current	0.65Amax@120VAC, 0.28A@277VAC
	Inrush Current	22A@120VAC 244us 51A@277VAC240us
	No load power	<1W@120VAC
	Standby Power	<2W@120VAC
Output	Current	200-1200mA (Default current: 950mA)
	Voltage	30-56V *(Triac dimming above 20V has better dimming effect)
	Power	60W max *(Triac dimming with a load of 20W or more has better dimming effect)
	Channel	1
	No load output voltage	59V Max
	Current Accuracy	±5%
	LF current ripple(<120Hz)	5%@30-56V, 1200mA
	Auxiliary Power (Vaux)	CV:12V(0-100mA) In Triac dimming mode, no load is required.
Protection	Overvoltage	Yes, Current drops, Auto-recovery after Fault Clearance
	Short circuit	Shut down output, Auto-recovery after Fault Clearance
Safety & EMC	Surge	L-N:2.5KV (ANSI/IEEE C62.41.1-2002 & c62.41.2-2002 category A, 2.5 kV ringwave)
	Withstand Voltage	I/P-O/P: 2000Vac/1min/<5mA, I/P-PG:1500Vac/1min/<5mA, O/P-PG: 500Vac/1min/<5mA, O/P-DIM(Signal port):500Vac/1min/<5mA
	Safety standards	UL8750/UL1310/CSA25013,CSA class P
	EMI Eission	EN55015,EN61000-3-2 Class C,IEC61000-3-3
	EMC Immunity	FCC class B(120V)/class A(277V)
Function	Dimming type	0/1-10V ,Potentiometer,PWM,Triac/ELV(@120VAC 60Hz)
	Dimming range	3%-100%
	Dimming curve	0-10V: linear/Logarithmic curve programmable, Triac/ELV: Logarithmic
	Flicker	Flicker free
Others	Working temp.	(-20~+50) ℃ [-4°F~122°F]
	Relative humidity	20~90% RH
	tc	90℃ [194°F]
	Lifetime	50,000h@tc:85℃[185°F]
	Warranty Condition	5 years
	Switch cycle	>25,000 times
	IP rating	IP20
	Material	Metal
	Dimension	182*27.4*20.6mm (7.17*1.08*0.811 Inch) (L*W*H)
	Pack Information	Net weight: TBDg±5%/PCS; TBDPCS/Carton; TBDkg±5%/Carton; Carton Size: TBD*TBD*TBDmm(L*W*H)

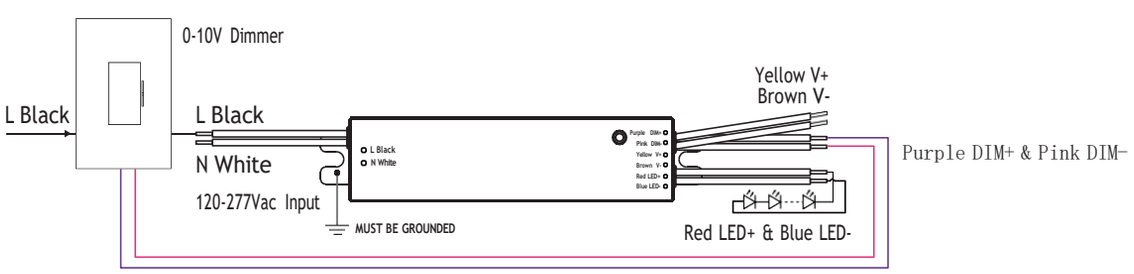
Dimension mm (Inch)



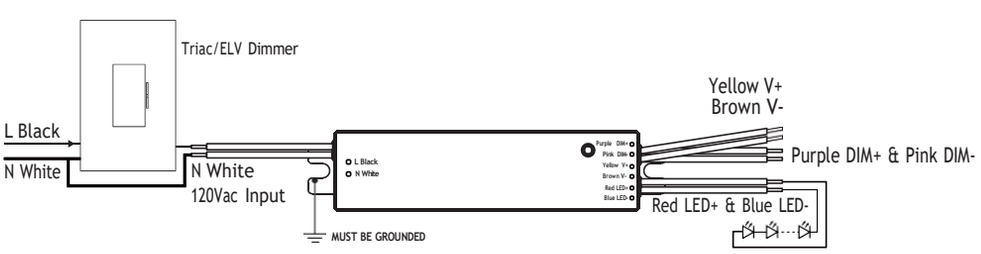
Wring Diagram

Metal case
All material to be ROHs compliant to Directive 2002/95/EC
Wires to be Stranded with UL approval
Input: Black & White: 200mm , 18AWG
Output: Red & Blue: 200mm , 18AWG
Dimming: Purple & Pink: 200mm , 20AWG
Auxiliary Power: Yellow & Brown: 200mm , 20AWG

0-10V Wiring



Triac/ELV Wiring



Mode switching

1. Dimming Mode Switching Window: Operation is only allowed within 30 seconds after power-on, and the device must remain powered off for at least 5 seconds before re-powering.
2. Activation Condition: The target action must be continuously maintained for 5 seconds to take effect.
3. Device Limitation: Only one dimming mode can be used at a time (e.g., if 0-10V mode is selected, a TRIAC dimming knob cannot be connected simultaneously. If TRIAC mode is selected, the 0-10V signal must remain disconnected and insulated).
4. Mode Persistence: Once a dimming mode is activated, it remains in effect until the next mode switch.

Dimming Mode Operation Steps Reference Table		
Target mode	Action requirements	Effective verification
0-10V mode	Control voltage ≤ 5V (hold for 5 seconds)	0-10V Mode: Normal Dimming
TRIAC/ELV Mode	Adjust the knob to 80%~50% brightness (hold for 5 seconds)	Triac/ELV Mode: Normal Dimming

Compatible Dimmer Recommendations

Mfg.	Lutron	Lutron	Lutron	Lutron	Lutron	Lutron
Model	SELV-300P-WH	DVCL-153PR-1WH	MACL-153MR-WH	DVWCL-153PH-WH	CTCL-153-PDH-WH	SCL-153P-WH
Mfg.	Lutron	Lutron				
Model	DVSCCL-153P-SW	PD-6WCL-WH-2				

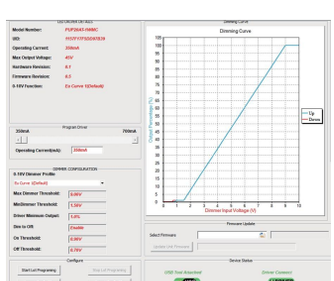
Note: The dimmers listed above have been tested and verified. Triac dimmers are not included in this recommendation list and need to be used after actual testing.

Configurable functions

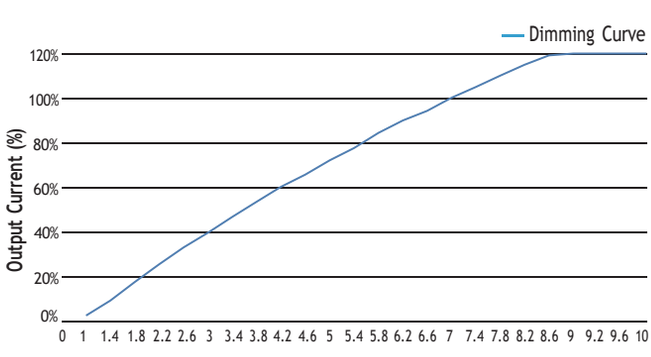
-Data log reading: SKU, serial number, batch number, FW revision version
-Output current regulation (factory default: 950)
-Dimming depth editing (factory default: see technical parameter table, editable range 10% Max)
-Dimming curve editing. Built in linear and logarithmic fixed curves, can be directly selected for use. At the same time, it has built-in custom curves and supports editing curves.
-Support parameter copying/replication and batch editing.

EU-PROG User Manual, Please click the link to view.
https://v2.fangcloud.com/share/2549f7729789c1c5ad5be53728


EU-PROG Programming connector


Interface

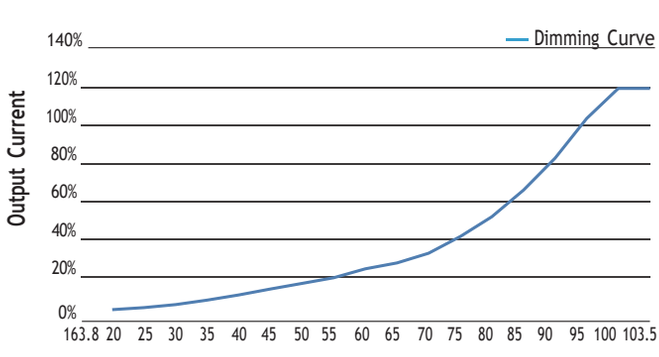
0-10V Dimming Curve



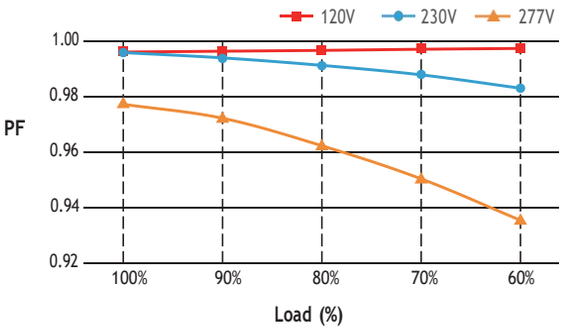
Dimming 0% (Vdim=0-0.80V)

Note: Full brightness value and curve programmable

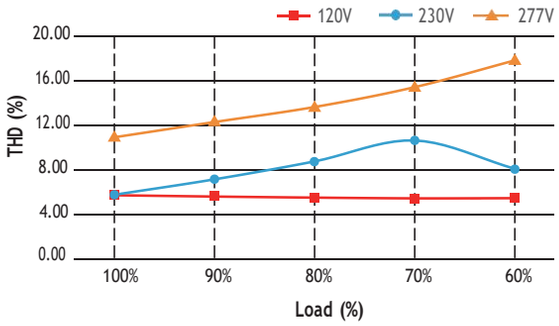
Triac Dimming Curve



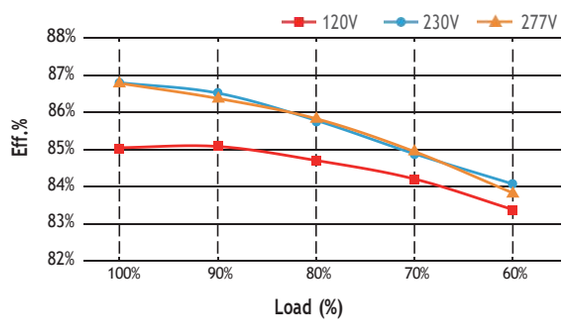
PF vs Load Curve



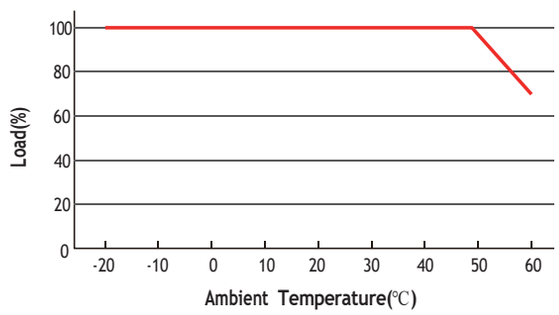
THD vs Load Curve



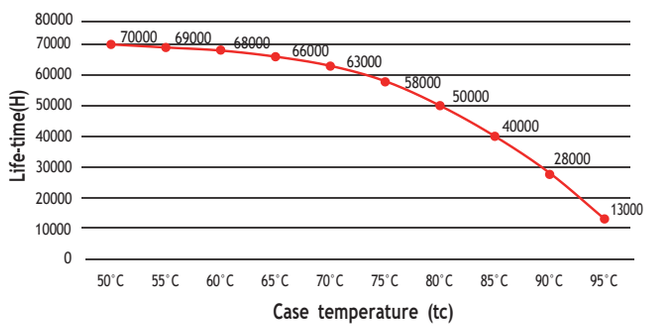
Efficiency vs Load Curve



Derating Curve



Life-time vs. case temperature



The lifetime of the LED driver is shown in the figure above
(calculated based on 90% reliability).
The relationship between tc and ta also depends on the luminaire design
NOTE:With baseplate dimension of 280mm*230mm*1. 5mm

Max. quantity of drivers per miniature circuit breaker

Specification item	Value	Value	Condition
Inrush current I_{peak}	22 (120V)	51 (277V)	Input Voltage120V/277V
Inrush current T_{width}	244 (120V)	240 (277V)	Input Voltage120V/277V, measured at 50% I_{peak}

MCB	Input Voltage 120V Drivers	Input Voltage 277V Drivers	MCB	Input Voltage 120V Drivers	Input Voltage 277V Drivers
B10	15pcs	6pcs	C10	15pcs	10pcs
B13	19pcs	8pcs	C13	20pcs	14pcs
B16	24pcs	10pcs	C16	24pcs	17pcs
B20	30pcs	13pcs	C20	30pcs	21pcs
			D16	24pcs	35pcs