

Specification Sheet	Product	50W 2100mA Adjustable current driver with 1-10V dimming	version: 2.0	Page:1/2
	Model	HQLPC50/123/2100AP/D4E1	Date	2019-8-14



■Features:

- Universal AC input:100~277VAC.
- Built-in active PFC function.
- Efficiency over 86%.
- Protections: Short circuit, Over temperature protection
- IP65, input/output ports are connected to the wire.
- Constant current output, output current can be adjusted by external potentiometer.
- With 1-10V/PWM dimming function .
- Suitable for LED lighting applications.
- Conforms to IEC and GB lighting equipment safety regulations.
- Independent installation,installed in indoor/outdoor.

ADJUSTABLE CURRENT LED DRIVER WITH 1-10V DIMMING



SPECIFICATION

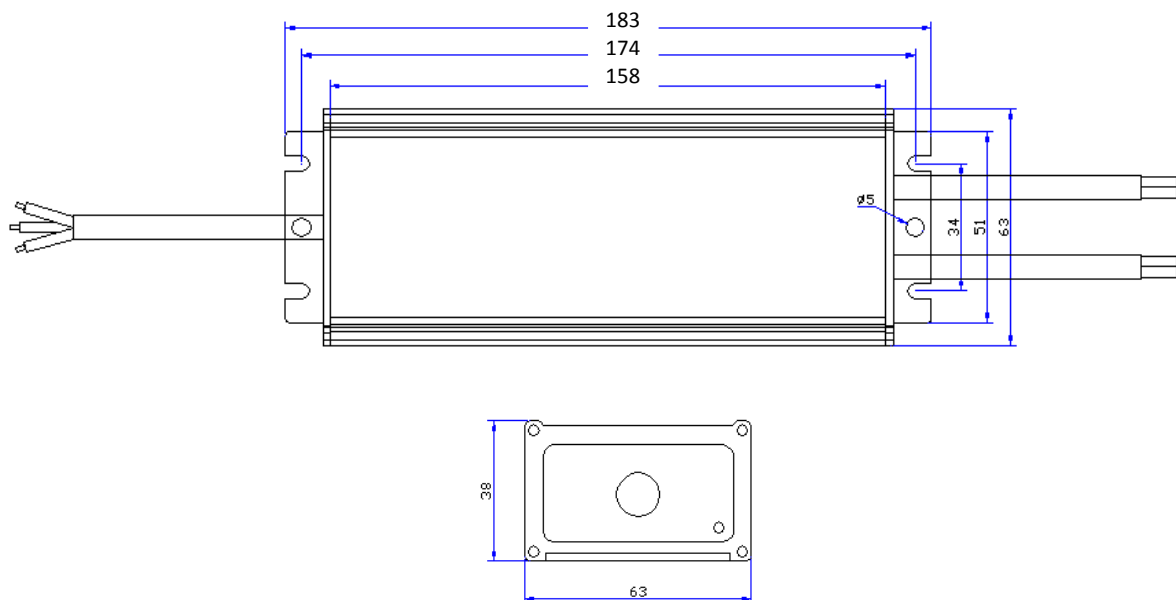
INPUT	Voltage range	Rated voltage range:100~277VAC , (Input voltage range:100~180VAC, 70% power use)		
	Frequency range	47~63Hz		
	Power factor	0.95 (100%full load)		
	Efficiency(Typ.)	≥86%	Test condition: Input Voltage 277VAC,100% full load.	
	AC current	≤0.44A/100VAC; ≤0.28A/220VAC		
	Start up inrush current(Typ.)	cold start: 50A Max. /277VAC		
	Leakage current	Contact current ≤0.7mA at 277VAC, Protect conductor current ≤2mA at 277VAC		
	THD	<20%		
	Input the dimming signal	1-10V/PWM(10V/100-1KHz)		
OUTPUT	Output channel	1 channel		
	Output current and voltage	850~2100mA (Adjustable Current)		
		24~60Vdc		
	Rated power	50W (200~277VAC)	35W (100~180VAC)	
	Tolerance	±5%		
	Dimming Range	10%-100%		
	Output ripple current	≤30% (100% full load)		
	Output overshoot / undershoot current	≤10%,when power open and shut down		
	Start up time	0~1S,100VAC ; 0~0.5S,277VAC		
	Short circuit protection	Products without damage, when abnormal condition removed , re-power on to recover.		
Over temperature protection	Protection shell maximum temperature 110 ℃, over temperature protection startup, shut down output, can be automatically restored after the temperature is normal			
ENVIRONMENT	Working TEMP.	-40~+50℃ (100%full load)		
	Max. CASE TEMP.	90℃ (100%full load)		
	Working humidity	20~95%RH, non-condensing		
	Storage TEMP.,humidity	-40~+80℃, 10~95%RH		
	Temp. coefficient	±0.03%/℃ (0~50℃)		
	Vibration	10~500Hz, 5G 12min/1 cycle, period for 72min.each along X、Y、Z axes		
SAFETY&EMC	Safety standards	GB19510.1/IEC61347-1 ; GB19510.14/IEC61347-2-13		
	Withstand voltage	I/P-O/P:3.75KVAC 60S(Leakage curent<100mA) I/P-FG:1.875KVAC O/P-FG:1.5KVAC ,60S(Leakage curent<10mA)		
	Isolation resistance	I/P-O/P,I/P-FG,O/P-FG:> 100MΩ at 500VDC/25℃/70%RH		
	EMC emission	GB17625.1/IEC61000-3-2 ;GB17743/CISPR15		
	EMC immunity	GB/T 18595/IEC61547		
		Surge immunity: L-N: 6KV; L,N-G: 6KV		
LIFE	50,000 hours at Tc=80℃			
SIZE	183×63×38mm(L×W×H),find below dimension.			
WEIGHT				
NOTE	1.All parameters NOT specially mentioned are measured at 220VAC input , rated load and 25℃ of ambient temperature . 2.The LED driver is considered as a component that will be operated in combination with final equipment , since EMC performance will be affected by the complete installation ,the final equipment manufacturers must re-qualify EMC directive on the complete installation again . 3.Detail warranty terms please refer to warranty statement.			

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■ SIZE

UNIT: mm

TOERLANCE: $\pm 1\text{mm}$



■ WIRE

Input wire: 3×1.0 rubber wire, Line length 350±20mm, decortication 30mm, endothelial 5mm solder;

Signal input wire: 2×1.0 rubber wire, Line length 300±20mm, decortication 30mm, endothelial 5mm solder;

Output wire: 2×1.0 rubber wire, Line length 300±20mm, decortication 30mm, endothelial 5mm solder:

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Please refer to the actual products provided by HUAQUAN for specific details.