Watran USA

CODE: 80841

Specification Sheet	Product	160W 1500mA Adjustable current driver with 1-10V dimming	version: 2.0	Page:1/2
	Model	HQLPC160/123/1500AP/D4E1	Date	2019-8-14

ADJUSTABLE CURRENT LED DRIVER WITH 1-10V DIMMING

■Features：

·Universal AC input:100～277VAC.
·Built-in active PFC function.
·Efficiency over 89%.
·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.

IP65

SPECIFICATION

INPUT	Voltage range	Rated voltage range:100～277VAC , (Input voltage range:100～180VAC, 70% power use)	
	Frequency range	47～63Hz	
	Power factor	PF≥0.95 (100%full load)	
	Efficiency(Typ.)	≥89%	Test condition: Input Voltage 277VAC,100% full load.
	AC current	≤1.38A/100VAC； ≤0.92A/220VAC	
	Start up inrush current(Typ.)	cold start： 60A 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	700～1500mA (Adjustable Current)	
		106～224Vdc	
	Rated power	160W（200～277VAC）	112W（100～180VAC）
	Tolerance	±5%	
	Dimming Range	10%-100%	
	Output ripple current	≤10%（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	
ENVIRONMENT	Working TEMP.	-40～+50℃（100%full load）	
	Max. CASE TEMP.	90℃（100%full load）	
	Working humdity	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	232×63×38mm(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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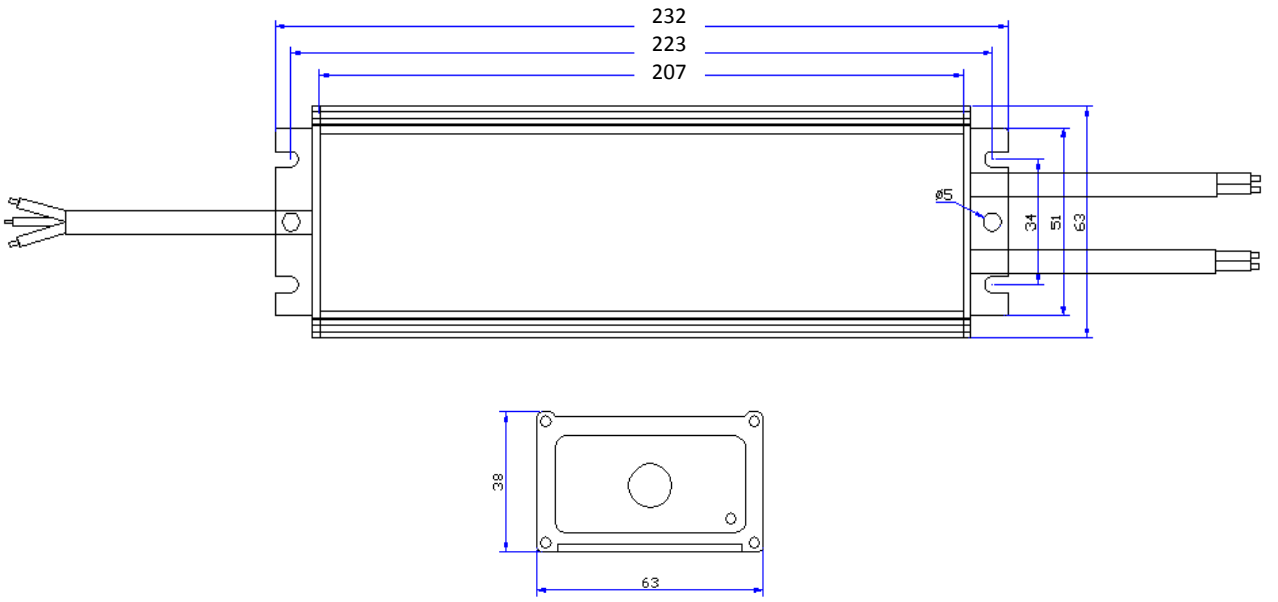
■SIZE UNIT：mm TOERLANCE：±1mm



■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；