ACEPOWER-USA

V series-AC phase control dimmable constant voltage LED driver

Features:

AC phase control dimmer input option, 90~126V model or 200~305Vac model

Instant start, light turn on less than 250mSec.

High power factor, PF>0.9 with no inrush current

High efficiency up to 85%

Protections: Short circuit / Overload / Over voltage/Over Temp. Protection

Free air convection cooling

Constant voltage output, for signage or luminaire application

suitable for dry / damp / wet locations

3 years warranty



		SPECIFICATION	
V	Voltage and Frequency RANGE Both 90~126Vac(CL model), or 200~277Vac(CH model) 47 ~ 63Hz input model available		
A	AC CURRENT	0.7A at 120Vac input,0.35A at 220Vac input, at 72W load condition	
INPUT P	POWER FACTOR	> 0.9 at full load output,0.95 typical	
11	NRUSH CURRENT(Typ.)	less than 1A at 115 or 230V input	
L	EAKAGE CURRENT	<1mA at 240VAC	
	Dimming control options	B option Standard model without the dimming option	
		P option models can operate with ELV type AC input phase control switch (note 3)	
		D option models can operate with 0~10V control input from the output side	
		E option models can operate with TTL digital PWM input control signal(from the output side	
		VX6012-Y version	VX7224-Y version
	MODEL	1	Y=B for base model without dimming option, WM control, Y=P for AC phase control model
ОИТРИТ	/OUT (VOLT)	12V	24V
	OUT (AMP)	5A	3A
	MAX POWER (Watt)	60W	72W
	/oltage tolerance	+/-3%	
	/oltage ADJ. RANGE	10.8~13.2V	
	SETUP, RISE TIME	250mS MAX with an output	
<u> </u>	EFFICIENCY (Typ.)	80~85%	
	OVER CURRENT	CONSTANT CURRENT <120% rated current down to 70% output voltage	
_	SHORT CIRCUIT	output shall shut down and automatic restart	
PROTECTION	OVER VOLTAGE	Output Voltage shall NOT exceed 150% of the max rated voltage.	
_	OTP(over temperature)	internal over temperature protection circuit will shut down output in case of over temperature condition	
	WORKING TEMP.		
_		nominal -20 to +50 C ambient at full load, linearly derate to 60% of output rating up to 80C	
_	WORKING HUMIDITY	5% to 100%, non-condensing	
<u> </u>	STORAGE TEMP., HUMIDITY	-40 to 80 C, 5% to 95%RH	
<u> </u>	TEMP. COEFFICIENT	0.1% per degree C maximum	
	/IBRATION	Frequency 5 to 50 Hz, acceleration ±7.35 M/(S*S), direction X,Y and Z Axis	
_	SAFETY STANDARDS	UL pending FOR SPECUALTY POWER SUPPLY with class 2 output	
_	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC	
	SOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25C / 70% RH	
EMC E	EMI CONDUCTION & RADIATION	Meet FCC Part 15 Class B, CISPR22 Class B	
	HARMONIC CURRENT	Compliance to EN61000-3-2 Class A ; EN61000-3-3	
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11.	
	Phase control dimming option Y=P Model	Output voltage PWM dutiy cycle calcluated by Microporcessor using the phase controlled AC input for dimming of the LED. No extra control wire needed (ELV type phase control dimmer only)	
Dimming control	0~10V control dimming option Y=D Model	Output voltage PWM dutiy cycle (at ~1KHz) controlled by the 0-10V sink type controls dimmer as specified in IEC 60929 Annex E(note 3, 4) or a external 100K variable resister	
	TTL PWM control	Output voltage PWM dutiy cycle controlled by external TTL PWM digital signal (100Hz~ 5KHz). When the input signal is	
	Y=E Model MTBF	active high the output is inhibited. >100K hours, MIL-HDBK217E at 25 degrees C ambient.	
OTHERS			
	DIMENSION	163mm X 41mm X 30 mm (6.4" X1.625" X 1.2") max	
2 F	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. For 0~10V PWM control dimming 3. The outernal control signal source connected to the D models purple and grow control wires, should have the capability to sink a minimum of 10mA for		
NOIE			
	is 10 Volts (or above). As the control voltage is reduced by the control, the light level is reduced. At a control voltage of 1 volt, the ballast (driver) provides its		
m	minimum light level. Any voltage less than 1 volt is defined as minimum. Some drivers' minimum is off, while other drivers' minimum is the lowest light leve of the driver. It is important to understand what minimum is for a particular driver. For drivers that do not go to off at minimum, a separate relay or switching.		
NOTE NOTE is n o	For 0~10V PWM control dimming 3 The external control signal source connected to the -D models purple and gray control wires, should have the capability to sink a minimum of 10mA f multiple power supply connected together. A single module requires a minimum sink current of 250uA 4. In IEC standard for current sink controls - Standard 60929 Annex E. it requires that the ballast (or driver) provides full light output when the control v is 10 Volts (or above). As the control voltage is reduced by the control, the light level is reduced. At a control voltage of 1 volt, the ballast (driver) provides minimum light level. Any voltage less than 1 volt is defined as minimum. Some drivers' minimum is off, while other drivers' minimum is the lowest light		