

Power Supply Constant Current Series 48V

V2.2



Characteristics

- 0 ~ 255 stepless light intensity control
- External trigger input for strobe lighting
- Mains powered
- Built in over-current protection
- DIN-rail or bottom screw mounting options
- Configurable over RS232 or Ethernet



Intelligent identification of the connected light power and automatically outputs the correct current value.

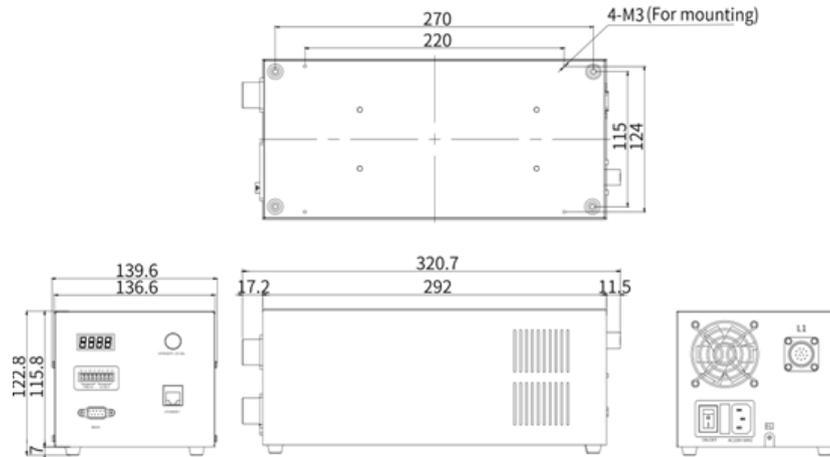
Technical specifications

	VA-PS4-CD2-550W	VA-PS4-CD1-600W
Lighting method	Continuous / Triggered	
Drive method	Constant current	
Light control method	Current control	
Output voltage	48 VDC	
No channels	2	1
Output power in total	576W	
Maximum current/power in single channel	6A / 288W	12A / 576W
Trigger function	Yes	
Trigger input voltage	5 – 24 VDC	
Trigger delay	< 50µs	
Input voltage	100 – 240 VAC 50/60Hz	
Power Connector	IEC C13	
Operating environment	Temperature -10 ~ 50 °C Humidity 20 ~ 85 %	
Cooling	Fan cooled	
Housing material	Painted steel	
Weight	2700 gram	
Dimension	320x36.6x122.8mm	

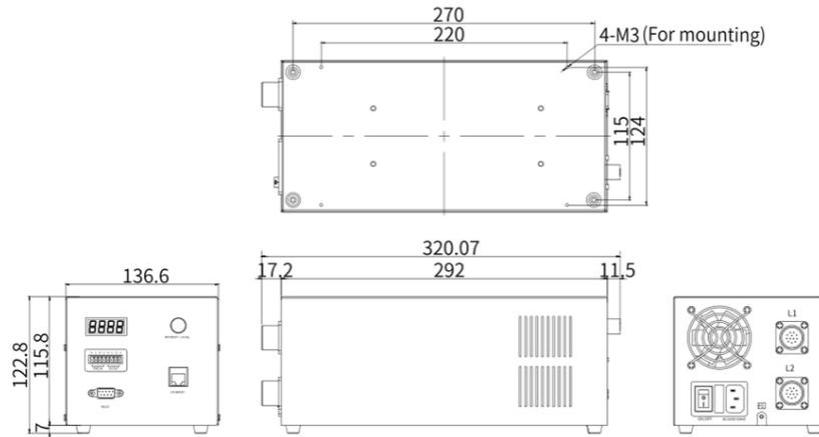
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Technical drawing

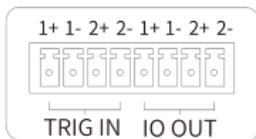
1 Channel



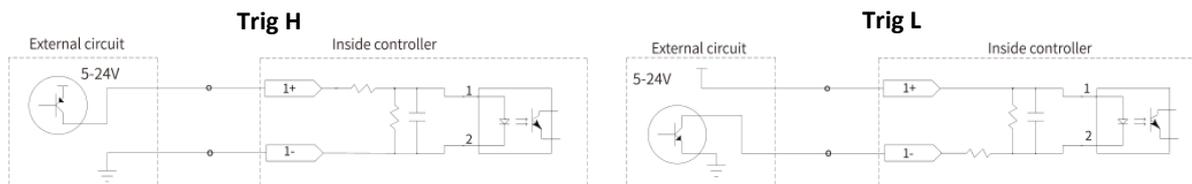
2 Channel



Trigger circuit



Trigger port No	Trigger definition	Trigger port no	IO OUT definition
1+	CH 1 Trigger input+	1+	IO 1 Reserve port
1-	CH 1 Trigger input-	1-	IO 1 Reserve port
2+	CH 2 Trigger input+	2+	IO 2 Reserve port
2-	CH 2 Trigger input-	2-	IO 2 Reserve port



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Product number

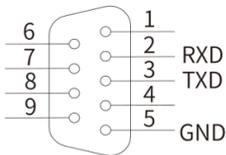
VA – PS4 - **Channels** - **Power** - **Voltage**
 CDx xxxW 48V

Communication Settings

RS232 parameters

Protocol	Working mode	Communication speed	Transport format			
			Start bit	Data bit	Check bit	Stop bit
RS-232	Half-duplex mode	19200bps	1	8	0	1

Port Pinout



Default ethernet parameters

Communication mode	Settings
NE=2	UDP (Broadcast) mode
IP address	192.168.1.2
Subnet mask IU	255.255.255.0
Gateway address IS	192.168.1.1
Port number IL	1200
Destination (PC) IP address DP	192.168.1.3
Destination (PC) IP address DL	1200

Display error codes

- Controller OTP: Displays E01
- Light OCP: Displays E02
- Light OTP: Displays E03
- Light temperature protection failure: Displays E04
- Controller temperature protection failure: Displays E05
- Fan drive circuit OTP: Displays E06
- Fan drive circuit temperature protection failure: Displays E07

Communication command list

Summary Table of Communication Format Description											
Command function description	Command format									Check code	Remark
	Identifier	Length	Device model	Device ID	Command code	Channel number	Parameter 1	Parameter 2	Check code		
1 Set ID	0x40	0x04	0x03	XX (current device ID)	0x09	0x00~0x63		The checksum is the lower eight bits of the cumulative sum of bytes		The factory default ID is 0, when the device ID is FF, the ID is automatically set to 0.	
2 Set channel ON/OFF function		XX (According to the Settings)			0x2A	0x00~0x01	0x00~0x01			Among them [parameter 1]: 0x00= means OFF, 0x01= means ON. When the channel number = 0xff, it means that all channels are set to the same parameters	
3 Set trigger method		0x04			0x23	0x00~0x01				00: low level trigger 01: high level trigger	
4 Set channel brightness		XX (According to the Settings)			0x1A	0x00~0x01	0x00~0xFF			Brightness level 0~255, when channel number =0xff, it means that all channels are set to the same parameters	
5 Set interface lock/unlock		0x04			0xA3	0x00~0x01				00- means unlock, 01- means locked	
6 Reset		0x04			0xF0	0xF0				Restore all parameters to factory defaults	
7 Read all parameters of the channel		0x04			0x31	0x00~0x01				When [channel number]=0xFF, it means to read the number of all channels	
8 Read all parameters of the channel (marked with channel number)		0x04			0x32	0x00~0x01				When [channel number]=0xFF, it means to read the number of all channels, with channel number and data details	
9 Device replies "Correct"		0x03			0x00		Reply after all commands are executed correctly				
10 Device replies "Error"		0x03			0x01		Reply to incorrect command or invalid data				

Note: In the above complete command format table, if the corresponding tables of [command code], [channel number], [parameter 1], [parameter 2] are merged, indicating that the tables involved in the merge are composed of only one byte, one byte is reserved for unmerged ones; all command codes, channel numbers and command parameters in the instruction set are expressed in hexadecimal

● Combined command sending method

Identifier	Length	Device model	Device ID	Command									CHKSUM
				Command code	Channel number	Brightness level	Command code	Channel number	Brightness level	Command code	Channel number	ON/OFF	
0x40	0x0B	0x03	0x00	0x1A	0x00	0x01	0x1A	0x01	0x01	0x2A	0x01	0x01	0xB1

● Reset to factory settings

Identifier	Length	Device model	Device ID	Command		CHKSUM
				Command code	Reset	
0x40	0x04	0x03	0x00	0xF0	0xF0	0x27

● Correct response to commands

Identifier	Length	Device model	Device ID	Command code	CHKSUM
0x40	0x03	0x03	0x00	0x00	0x46

● Error response to commands

Identifier	Length	Device model	Device ID	Command code	CHKSUM
0x40	0x03	0x03	0x00	0x01	0x47