C³VSeries....The World Compact + Accurate 1U Programmable DC Power Supply for Instrumentation and System Integration.

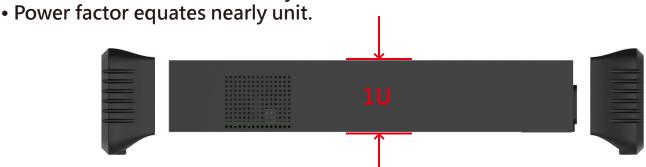
Description:

C³V Series stand for C.C.C.V.

abbreviated of constant current constant voltage of a high end DC power supply. Technically speaking, they incorporate 1U mechanism, high efficiency power conversion, post linear regulator, accurate measurement, full programmability and diverse communication interfaces. Commercially speaking, they integrate all about the advantages of the Instrumental power supply and industry-oriented power supply on the market. The high efficiency implemented the 1U low profile while the post linear regulation topology and the accurate measure made them suitable on the laboratory uses. The programmability and communication ability are essential to ATE and any application which needs automatic control and data acquisition.

Features:

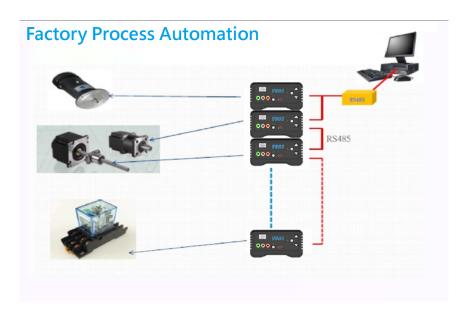
- Compact 1Ux100mm design and light weight.
- Post linear regulator topology (LDO) for optimized output.
- Accurate 4-digit measure with voltage tolerance < 0.05%.
- Optional RS232, USB and RS485 interfaces.
- Parallel coms.up to 32 units via RS485.
- Panel calibration system available.
- Perfect for industry automation & remote control.
- Portable, stand alone and in-system versatilities.

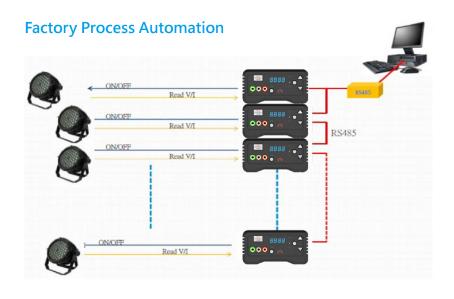


Applications:

Personal possession (PP)	Factory process automation(FA)
Laboratory uses(LAB)	Factory automatic test(ATE)
Education & training(ED)	Electro- mechanical system(EMS)
Industrial control(IC)	Precise battery charger(PCH)
Lithium battery array charger (LCH)	Smart home control (SCS)

Application examples for max. 32 units connection:





C³V Catalog

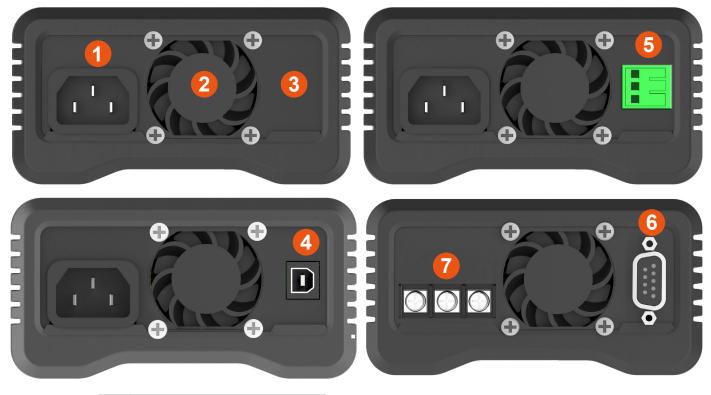
Options on front and rear panels:





1	Model No.
2	Banana Post O/P
3	4-digit Display
4	O/P key

5	Enter key
6	UP key
7	Down key
8	Terminal Board O/P



1	IEC Type AC Input
2	Cooling Fan
3	w/o comm
4	USB-B

5	RS-485
6	RS-232
7	Terminal Board AC Input

How to order C³V

Neutral order code:

C3V-vvii-FT-RT-C

options in details

vvii: output ratings

2010: 0~20V, 0~10A

4005: 0~40V, 0~5A

6003: 0~60V, 0~3.5A

FT: Front panel output types

tb: terminal board

bn: banana jack

C: Comm types

N: not applied

U: USB, type B

2: RS-232

5: RS-485

RT: Rear panel AC in types

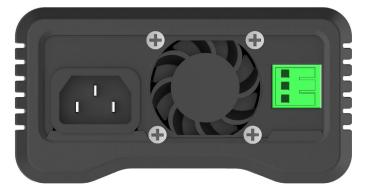
tb: terminal board

ec: IEC type

For example:

If a "C3V-4005-TB-EC-5" is ordered, the real product will be looking as followed:





Specification

C³V Series	2010	4005	6003	
	ELECTRIC			
	AC input rating			
Voltage		85~264VAC		
Current	2.4A max./1	15VAC , 1.2A m	ax./230VAC	
Frequency		47~63Hz		
Inrush	22A max./115VAC, 46A max./230VAC			
power factor	PF>0.95/230VAC, PF>0.99/115VAC			
ELECTRONIC				
DC output rating				
Voltage, Volt	0-20.00V	0-40.00V	0-60.00V	
Current, Amp	0-9.990A	0-5.000A	0-3.500A	
Power, Watt	200W	200W	210W	
	Line reg	julation		
CV, mV	<= 10mV	<= 10mV	<= 10mV	
CC, mA	<= 5mA	<= 5mA	<= 5mA	
	Load regulation			
CV, mV	<= 10mV	<= 10mV	<= 10mV	
CC, mA	<= 5mA	<= 5mA	<= 5mA	
Ripple / Noise (*1)				
CV p-p, mV	<=30mVpp	<=30mVpp	<=30mVpp	
CV rms, mV	<= 10mV	<= 10mV	<= 10mV	
CC rms, mA	<= 10mA	<= 10mA	<= 10mA	

MEASUREMENT				
Panel setting resolution				
Voltage, mV	10mV	10mV	20mV	
Current, mA	5mA	2mA	2mA	
	Programming resolution			
Voltage, mV	10mV	10mV	20mV	
Current, mA	5mA	2mA	2mA	
	Measureme	ent accuracy		
Voltage, %	0.05 % +5 cnt	0.05 % +6 cnt	0.05 % +7 cnt	
Current, %	0.2% + 10 cnt	0.1% +8 cnt	0.1% +8 cnt	
Temperature coefficient				
Voltage	0.001%/°C	0.001%/°C	0.001%/°C	
Current	0.005%/°C	0.005%/°C	0.005%/°C	
	PROTE	CTIONS		
OVP	yes	yes	yes	
OCP	yes	yes	yes	
ОТР	yes	yes	yes	
	COMMUNICATION			
Interface: only 1 option				
RS232	DB9			
RS485	terminal block			
USB	type-B			
	Protocol			
Data rate	57600/N/8/1			

NORMS		
EMC EMISSION	EN61000-3-2,-3	
EMC IMMUNITY	EN61000-4-2,3,4,5,6,8,1	
SAFETY	EN60950-1	
ENVIRONMENT		
Operating temp.	0°C~50 °C	
R.H., no condensed	20%~85%	
Storage temp.	-20°C~70 °C	
R.H., no condensed	<90%	
PHYSICAL		
Dimensions/Weight	W*D*H = 100mm*250mm*40mm(<1U) / 1.2Kg	

*1: From output terminals, running a 25cm twisted wire pair terminated with a 0.1uf CC & 10uF EC, observe voltage across the capacitors under 20 MHz BW at full resistive load.



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