

Programmable AC-DC Power Supplies



C3V Series 200W Voltage & Current Programmable

Features:-

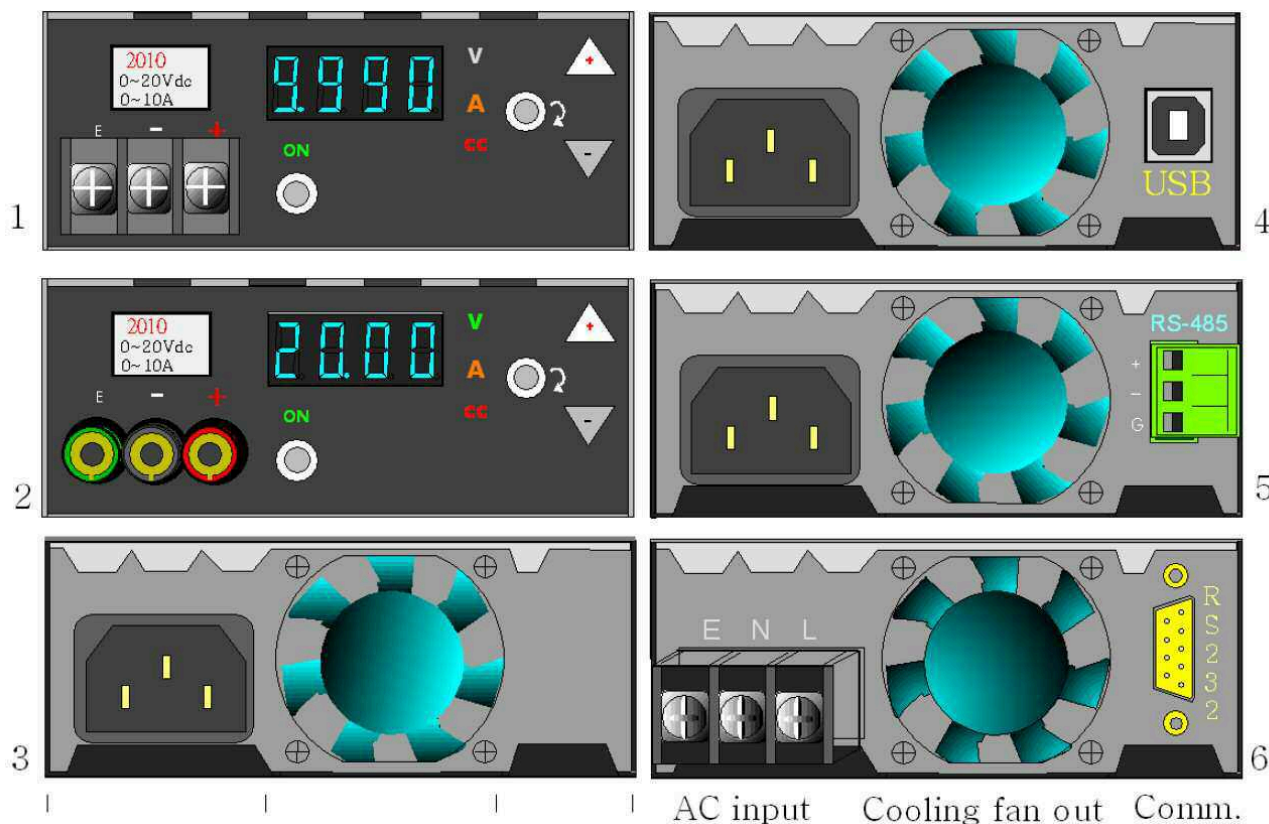
- Compact, light weight 1U high design
- Universal 85-264VAC input with PFC
- Three models with 0-20V, 0-40V or 0-60V DC output
- Post linear regulator topology for optimised output
- Optional RS232, RS485 & USB interfaces
- Accurate 4 digit display with voltage tolerance <0.05%
- Parallel comms up to 32 units via RS485
- Panel calibration system available
- Perfect for industrial automation & remote control



Electrical Specification

Model	C3V-2010	C3V-4005	C3V-6003
AC Input Voltage & Frequency	85-264VAC, 47-63Hz		
Input Current	2.4A max 115VAC input, 1.2A max 230VAC input		
Inrush Current	22A max 115VAC input, 46A max 230VAC input		
Power Factor	>0.95 230VAC input, >0.99 115VAC input		
DC Output Voltage	0 to 20.00V	0 to 40.00V	0 to 60.00V
DC Output Current	0 to 9.990A	0 to 5.000A	0 to 3.500A
Line Regulation CV	≤10mV	≤10mV	≤10mV
Line Regulation CC	≤5mA	≤5mA	≤5mA
Load Regulation CV	≤10mV	≤10mV	≤10mV
Load Regulation CC	≤5mA	≤5mA	≤5mA
Ripple & Noise CV	≤10mV RMS, 30mV pk-pk	≤10mV RMS, 30mV pk-pk	≤10mV RMS, 30mV pk-pk
Ripple & Noise CC	≤10mA	≤10mA	≤10mA
Panel Setting Resolution (V)	10mV	10mV	20mV
Panel Setting Resolution (C)	5mA	2mA	2mA
Programming Resolution (V)	10mV	10mV	20mV
Programming Resolution (C)	5mA	2mA	2mA
Programming Accuracy (V)	0.05% +5 digits	0.05% +6 digits	0.06% +7 digits
Programming Accuracy (C)	0.2% +10 digits	0.1% +8 digits	0.1% +8 digits
Measurement Resolution (V)	10mV	10mV	20mV
Measurement Resolution (C)	5mA	2mA	2mA
Measurement Accuracy (V)	0.05% +5 digits	0.05% +6 digits	0.05% +7 digits
Measurement Accuracy (C)	0.2% +10 digits	0.1% +8 digits	0.1% +8 digits
Temperature Coefficient (V)	0.001%/°C	0.001%/°C	0.001%/°C
Temperature Coefficient (C)	0.005%/°C	0.003%/°C	0.003%/°C
Output Protection	Over Voltage, Over Current & Over Temperature Protection		
Communication Option	RS232 (DB9 connector), RS485 (terminal block), USB (type B) only one option available		
Protocol	Date rate 57600/N/8/1		
EMC Emissions/Immunity	EN55032, EN55035, EN61000-3-2,-3, EN61000-4-4,3,4,5,6,8,1		
Safety	EN62368-1 2014+A11:2017 CE Certified		
Operating Temperature	0°C to +50°C		
Storage Temperature	-20°C to +70°C		
Relative Humidity	20% to 85% non condensing		
Dimensions/Weight	W100 x D250 x H40mm (<1U) 1.2Kg		

Options for front and rear panel



Ordering information:

Comms Port Options: **N** = none, **U** = USB type B, **2** = RS232, **5** = RS485

Front Panel Terminals: **TB** = Screw Terminals, **BN** = Banana Plugs

Rear Panel Connector: **TB** = Screw Terminals, **EC** = IEC Socket

Part Number Example:

C3V-2010-XX-YY-Z where XX = front panel terminal, YY = rear panel input terminal and Z = Comms

Therefore **C3V-2010-TB-EC-U** would be the 0-20V model with screw terminals output, IEC input and USB communication port.