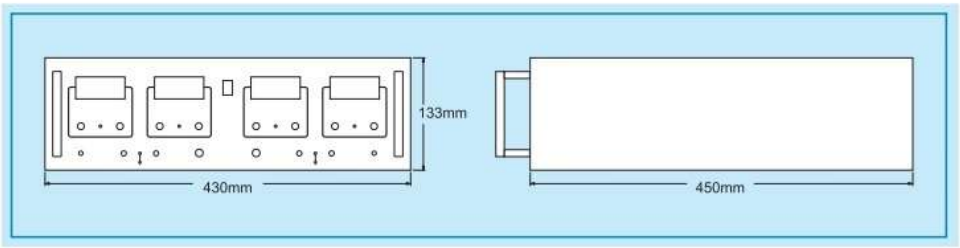
PROGRAMMABLE LINEAR DC POWER SUPPLY

CBVS 30/6/5/5

- Phase controlled pre-regulation plus linear post regulation
- High stability and close regulation
- 3 Digit digital display for V&I or HMI / TFD LCD DISPLAY
- V - A Switch provided
- Front panel potentiometer to set V&I
- High current density.
- LAN Interface ,USB ,RS485,RS232



Special features

- 19" rack mounting
- Light Weight

MODEL	CBVS 30/6/55				
Input Voltage	230V AC, ±10%, 50Hz, 1phase				
Output Voltage	Ch1 - 0-30V	Ch2 - 0-30V	Ch3 - 0-6V	Ch4 - 5V	* (USB output)
Output Current	0-5A	0-5A	0-3A	2A	
Output Power	328 W				
Line Regulation CV *	< 0.01% + 10 mV				
Load Regulation CV !	< 0.01% + 10 mV				
Line Regulation CC *	< 0.01% + 5mA				
Load Regulation CC !!	< 0.01% + 5mA				
Ripple & noise	ultra low ripple	noise <1mV p-p			
Sequence function	ramp, step, sine, square				
Ethernet Interface	LAN Provided				
Arbitrary Parameter	Voltage ,Current ,Time				
Current acc. with prog.	0.3% of Imax				
Operating Temp./ Humid.	0 to 50°C / ≤80%Rh				
Protection	OL,SC,OVP,OP, over temperature, output ON/OFF ,Panel Lock				
Indications (LED)	CV & CC				
Display	* V & I (LED Display)	or 4.3-inch TFT LCD	or HMI Display	* optional display	
Meter parameter	voltage, current, power, presetting/protection limit, for all channels simultaneously				
Meter Resolution	voltage : 0.1mV	current : 0.1mA			
Programming Accuracy	voltage : <0.3% + 20mV	current : <0.2% +5mA			
Programming Resolution	voltage: 10mV	current : 1mA			
Input On/Off	M.C.B.				
Single Turn Pots	V Set & I Set				
Dimensions apprx.** W × H× D	440mm × 133 mm (3U) × 600 mm				

* CE Certified
** RoHS Complienant

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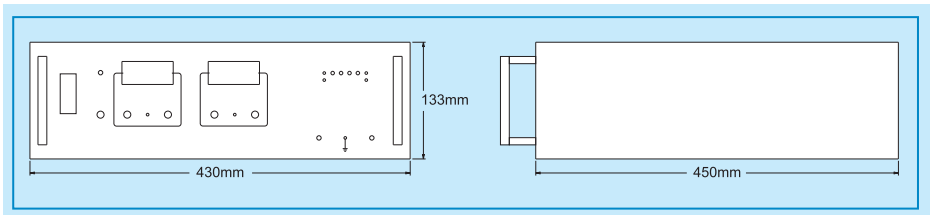
Multi-output Regulated DC Power Supply CBVS5/25/25



SPECIFICATIONS:

Metering : 4 digit DPMs for voltage and current measurement.
Meter Accuracy : ±3 counts.
Constant Voltage Mode :
REGULATION :
Line : ≤0.02% ±4mV for ±10% change in line voltage.
Load : ≤0.02% ±4mV for load change from zero to full load.
RIPPLE AND NOISE : 1mV rms max. 20Hz to 20MHz.
Constant Current Mode :
REGULATION :
Line : ±0.1% ±250μA for ±10% change in line voltage.
Load : ±0.1% ±250μA for change in output voltage from 0 volts to maximum output voltage.
Ripple & Noise(20Hz to Mhz):
<350μVrms
Mode Indication : LED indication for constant voltage / constant current operation mode.
Output Polarity : Floating w.r.t. ground.
Protection : OCP, OVP
Programming Resolution :
100mV / 10mA

Transient Response : 100 micro sec within 10mV of set output voltage for load change from 10% to 90%.
Stability : Total drift within 8 hours, after 30 minutes warm-up under constant line, load and temperature.
< ±0.2% ±10mV in CV mode.
< ±0.5% ±10mA in current mode.
Operating Temperature :
0 to 50°C.
Temp. Coefficient : ±0.05% ±5mV per OC after initial warm-up of 30 minutes, in voltage mode.
Line Voltage : 230V AC ±10%, single phase 50Hz.

Output Voltage & Current :
Output voltage : Ch1: 0 TO 5V
Ch2: 0 TO 25V
Ch3: 0 TO 25V

Output current : Ch1: 0 TO 3A
Ch2: 0 TO 2A
Ch3: 0 TO 2A

Dimensions : 430 x 133 x 450

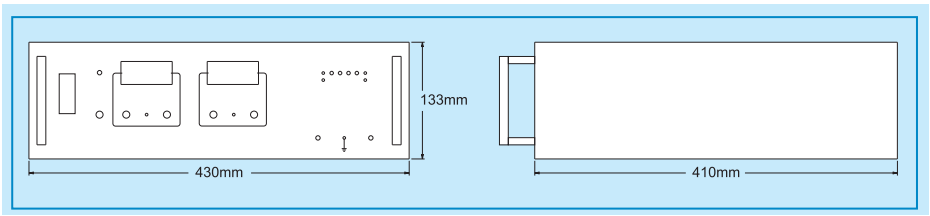
Weight : 25 kg approx.

- Phase Controlled Pre- Regulation Plus Linear Post- Regulation
- One Digital Meters - 4 Digit DPMs with V/A Selector Switch
- Constant Voltage / Constant Current Operation
- USB Interface
- Remote Sensing
- High Stability and Close Regulation ±0.01%

Special feature at Extra Cost

a) Presetting Facility
b) Over Voltage / Current Protection
c) 19" Rack Mounting
d) Analog programming & monitoring for Voltage & Current.

Multi-output Regulated DC Power Supply CBVS6/25/5/1



SPECIFICATIONS:

Metering : 3 digit DPMs for voltage and current measurement.
Meter Accuracy : ±3 counts.
Constant Voltage Mode :
REGULATION :
Line : ±0.01% ±2mV for ±10% change in line voltage.
Load : ±0.01% ±2mV for load change from zero to full load.
RIPPLE AND NOISE : 1mV rms max. 20Hz to 20MHz.
Constant Current Mode :
REGULATION :
Line : ±0.01% ±250μA for ±10% change in line voltage.
Load : ±0.01% ±250μA for change in output voltage from 0 volts to maximum output voltage.
Ripple & Noise(20Hz to Mhz):
<350μVrms
Mode Indication : LED indication for constant voltage / constant current operation mode.
Output Polarity : Floating w.r.t. ground.
Overload Protection : Constant current type.
Transient Response : 100 micro sec within 10mV of set output voltage for load change from 10% to 90%.
Stability : Total drift within 8 hours, after 30 minutes warm-up under constant line, load and temperature.
< ±0.2% ±10mV in CV mode.
< ±0.5% ±10mA in current mode.
Operating Temperature :
0 to 50°C.
Temp. Coefficient : ±0.05% ±5mV per OC after initial warm-up of 30 minutes, in voltage mode.
Line Voltage : 230V AC ±10%, single phase 50Hz.

Output Voltage & Current :
Output voltage : Ch1: 0 TO 6V
Ch2: 0 TO +25V
Ch3: 0 TO -25V

Output current : Ch1: 0 TO 5A
Ch2: 0 TO 1A
Ch3: 0 TO 1A

Dimensions : 430 x 133 x 450

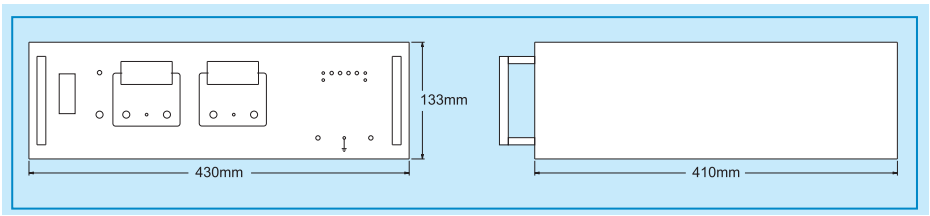
- Phase Controlled Pre- Regulation Plus Linear Post- Regulation
- One Digital Meters - 3 Digit DPMs with V/A Selector Switch
- Constant Voltage / Constant Current Operation
- 19" Rack Adaptable
- Remote Sensing
- High Stability and Close Regulation ±0.01%

Special feature at Extra Cost

a) Presetting Facility
b) Over Voltage / Current Protection
c) 19" Rack Mounting
d) Analog programming & monitoring for Voltage & Current.
e) USB Interface

Programmable Regulated DC Power Supply
CBVS10/30/60/1

**for refrence only



SPECIFICATIONS:

Metering : 4 digit DPMs for voltage and current measurement.
Meter Accuracy : ±3 counts.
Constant Voltage Mode :
REGULATION :
Line : ±0.01% ±2mV for ±10% change in line voltage.
Load : ±0.01% ±2mV for load change from zero to full load.
Ripple & noise : 1mV rms max. 20Hz to 20MHz.
Constant Current Mode :
REGULATION :
Line : ±0.1% ±2mA for ±10% change in line voltage.
Load : ±0.1% ±2mA for change in output voltage from 0 volts to maximum output voltage.
Ripple & Noise(20Hz to Mhz):
<4mArms
Mode Indication : LED indication for constant voltage / constant current operation mode.

Output Polarity : Floating w.r.t. ground.

Protection : Overload and short circuit protection

Transient Response : 100 micro sec within 10mV of set output voltage for load change from 10% to 90%.
Stability : Total drift within 8 hours, after 30 minutes warm-up under constant line, load and temperature.
< ±0.2% ±10mV in CV mode.
< ±0.5% ±10mA in current mode.
Operating Temperature :
0 to 50°C.
Temp. Coefficient : ±0.05% ±5mV per OC after initial warm-up of 30 minutes, in voltage mode.
Line Voltage : 230V AC ±10%, single phase 50Hz.

Output Voltage & Current :
Output voltage : Ch1: 0 TO 10V
Ch2: 0 TO 30V
Ch3: 0 TO 60V

Output current : Ch1: 0 TO 1A
Ch2: 0 TO 1A
Ch3: 0 TO 1A

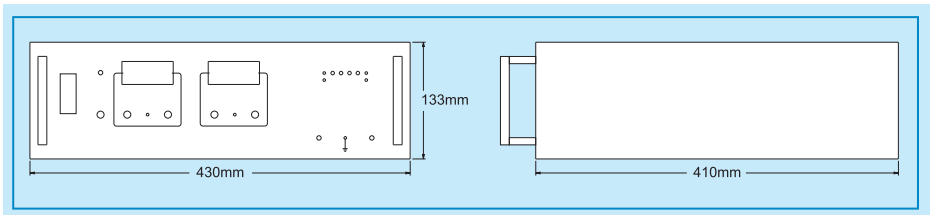
Dimensions : 430 x 133 x 450

- Phase Controlled Pre- Regulation Plus Linear Post- Regulation
- One Digital Meters - 4 Digit DPMs with V/A Selector Switch
- Constant Voltage / Constant Current Operation
- 19" Rack Adaptable
- USB interface
- High Stability and Close Regulation ±0.01%

Special features at Extra Cost

a) Presetting Facility
b) Over Voltage / Current Protection
c) 19" Rack Mounting

Multi-output Regulated DC Power Supply CBVS30/5/3



- Phase Controlled Pre- Regulation Plus Linear Post- Regulation
- One Digital Meters - 3 Digit DPMs with V/A Selector Switch
- Constant Voltage / Constant Current Operation
- USB Interface
- Remote Sensing
- High Stability and Close Regulation ±0.01%

Special feature at Extra Cost

a) Presetting Facility
b) Over Voltage / Current Protection
c) 19" Rack Mounting
d) Analog programming & monitoring for Voltage & Current.

SPECIFICATIONS:

Metering : 3 digit DPMs for voltage and current measurement.
Meter Accuracy : ±3 counts.
Constant Voltage Mode :
REGULATION :
Line : ±0.01% ±2mV for ±10% change in line voltage.
Load : ±0.01% ±2mV for load change from zero to full load.
RIPPLE AND NOISE : 1mV rms max. 20Hz to 20MHz.
Constant Current Mode :
REGULATION :
Line : ±0.1% ±250μA for ±10% change in line voltage.
Load : ±0.1% ±250μA for change in output voltage from 0 volts to maximum output voltage.
Ripple & Noise(20Hz to Mhz):
<350μVrms
Mode Indication : LED indication for constant voltage / constant current operation mode.
Output Polarity : Floating w.r.t. ground.
Overload Protection : Constant current type.

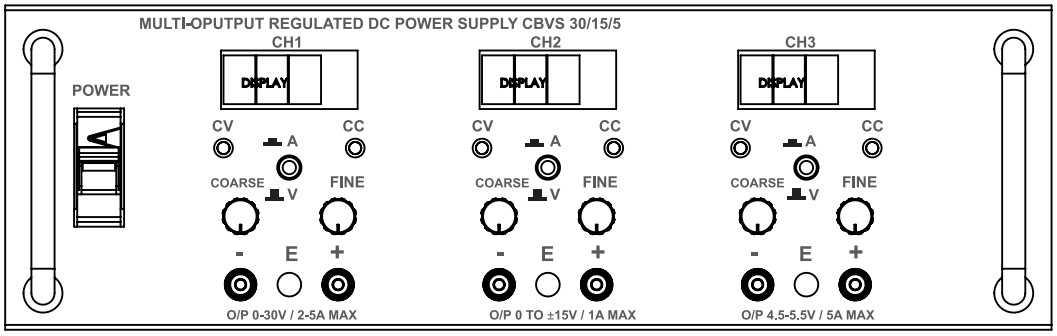
Transient Response : 100 micro sec within 10mV of set output voltage for load change from 10% to 90%.
Stability : Total drift within 8 hours, after 30 minutes warm-up under constant line, load and temperature.
< ±0.2% ±10mV in CV mode.
< ±0.5% ±10mA in current mode.
Operating Temperature :
0 to 50°C.
Temp. Coefficient : ±0.05% ±5mV per OC after initial warm-up of 30 minutes, in voltage mode.
Line Voltage : 230V AC ±10%, single phase 50Hz.

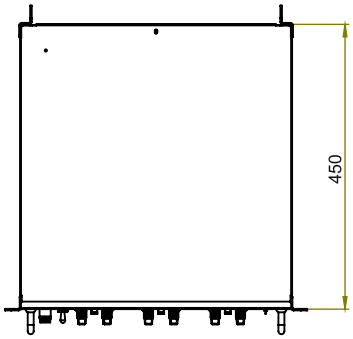
Output Voltage & Current :
Output voltage : Ch1: 0 TO 30V
Ch2: 0 TO 30V
Ch3: 0 TO 5V

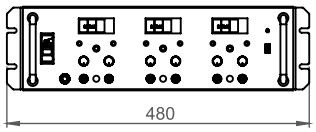
Output current : Ch1: 0 TO 3A
Ch2: 0 TO 3A
Ch3: 0 TO 3A

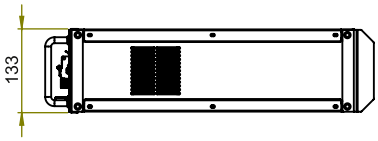
Dimensions : 430 x 133 x 450

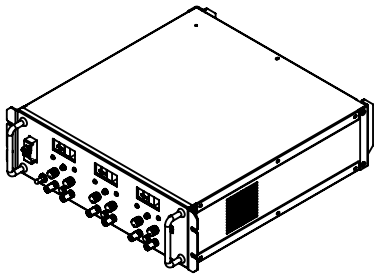
Multi-output Regulated DC Power Supply CBVS30/15/5











SPECIFICATIONS:

Metering : 3 digit seven segment LED DPMs for voltage and current measurement.
Meter Accuracy :
V: ±(1%+1 digit)
I: ±(1%+3 digit)

Constant Voltage Mode :
REGULATION :
Line : ±0.05% ±10mV for ±10% change in line voltage.
Load : ±0.05% ±10mV for load change from zero to full load.
Ripple & Noise : 1mV rms max. 20Hz to 20MHz./ <5mvVp-p
Constant Current Mode :
REGULATION :
Line : ±0.1% ±3mA for ±10% change in line voltage.
Load : ±0.1% ±3mA for change in output voltage from 0 volts to maximum output voltage.
Ripple & Noise(20Hz to Mhz):
<6mArms
Setting Resolution:
voltage : 10mV
current : 5mA

Protection : Overload protection (CC type), over voltage protection

Transient Response : 100 micro sec within 10mV of set output voltage for load change from 10% to 90%.

Internal resistance Stability : ≤10mΩ ,2.5mV at full load

Current limit adjustment:
100mA to max, CC & CV

Operating Temperature :
0 to 50°C.

Temp. Coefficient : ±0.05% ±5mV per OC after initial warm-up of 30 minutes, in voltage mode.

Line Voltage : 230V AC ±10%, single phase 50Hz.

Output Voltage & Current :
Output voltage : Ch1: 0 TO 30V
Ch2: 0 TO ±15V
Ch3: 4.5 TO 5.5V

Output current : Ch1: 2 TO 5A
Ch2: 0 TO 1A
Ch3: 0 TO 5A

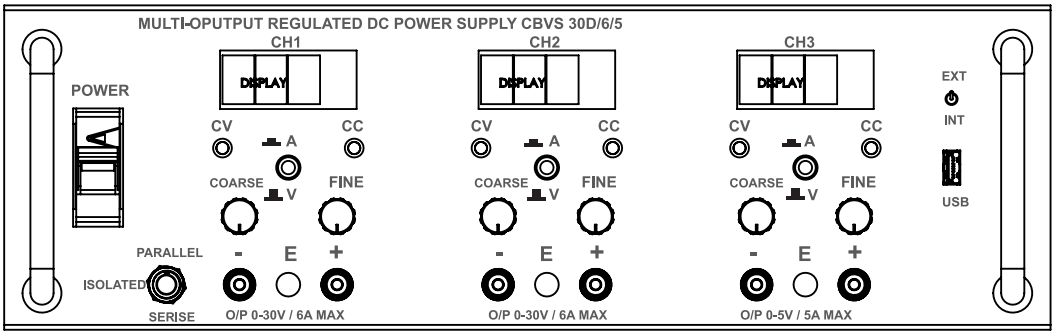
Dimensions : 430 x 133 x 450

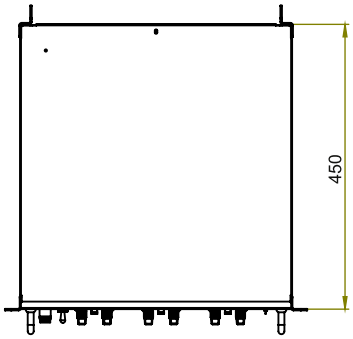
- Phase Controlled Pre- Regulation Plus Linear Post- Regulation
- One Digital Meters - 3 Digit DPMs with V/A Selector Switch
- Constant Voltage / Constant Current Operation
- Over Temperature protection

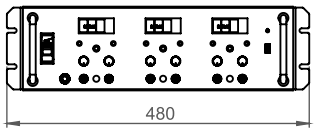
Special feature at Extra Cost

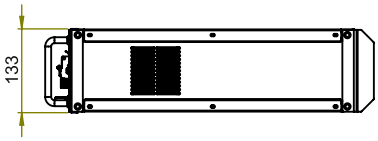
a) 19" Rack Mounting

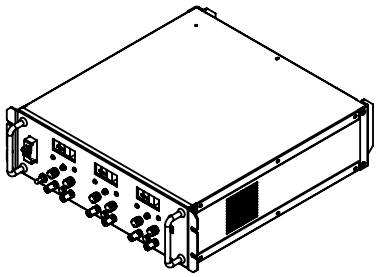
Multi-output Regulated DC Power Supply CBVS30D/6/5











SPECIFICATIONS:

Metering : 4 digit DPMs for voltage and current measurement.
Meter Accuracy : ±3 counts.
Constant Voltage Mode :
REGULATION :
Line : ±0.01% ±3mV for ±10% change in line voltage.
Load : ±0.01% ±3mV for load change from zero to full load.
Ripple & Noise : 1mV rms max. 20Hz to 20MHz./ <3mVp-p
Constant Current Mode :
REGULATION :
Line : ±0.1% ±1mA for ±10% change in line voltage.
Load : ±0.1% ±1mA for change in output voltage from 0 volts to maximum output voltage.
Ripple & Noise(20Hz to Mhz):
<6mArms
Setting/Read back Resolution Accuracy :
voltage : 10mV, <0.06%±20mV
current : 1mA, <0.2%±10mA
Operation modes :
v1+v2 series ; I1+I2 parallel
Overload Protection : Constant current type.

Transient Response : 100 micro sec within 10mV of set output voltage for load change from 10% to 90%.
Stability : Total drift within 8 hours, after 30 minutes warm-up under constant line, load and temperature.
< ±0.2% ±10mV in CV mode.
< ±0.5% ±10mA in current mode.
Operating Temperature :
0 to 50°C.
Temp. Coefficient : ±0.05% ±5mV per OC after initial warm-up of 30 minutes, in voltage mode.
Line Voltage : 230V AC ±10%, single phase 50Hz.

Output Voltage & Current :
Output voltage : Ch1: 0 TO 30V
Ch2: 0 TO 30V
Ch3: 0 TO 5V

Output current : Ch1: 0 TO 6A
Ch2: 0 TO 6A
Ch3: 0 TO 5A

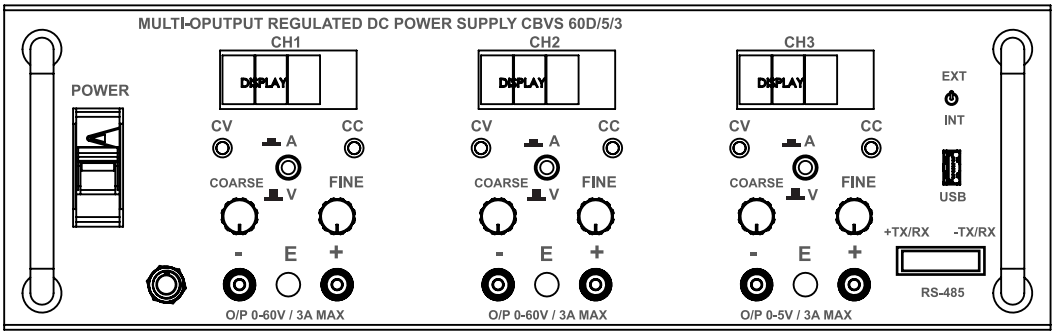
minimum Power : 180 watt

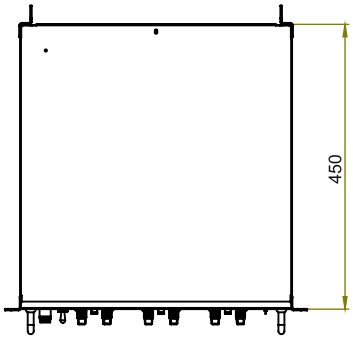
Dimensions : 430 x 133 x 450

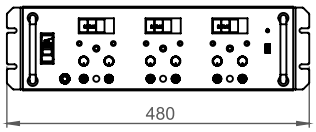
- Phase Controlled Pre- Regulation Plus Linear Post- Regulation
- One Digital Meters - 4 Digit DPMs with V/A Selector Switch
- Constant Voltage / Constant Current Operation
- USB, LAN, RS-485 Interface
- Over Temperature protection

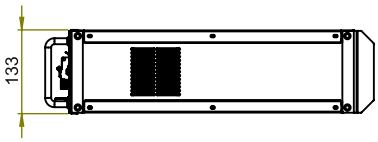
Connectivity & Software : USB, LAN, RS-485 connections to control & monitor the power supply using PC based HMI software

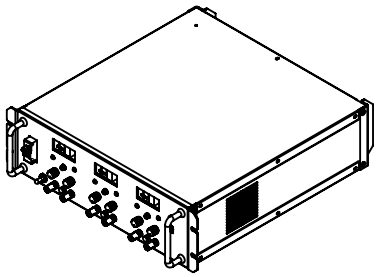
Multi-output Regulated DC Power Supply CBVS60D/5/3











SPECIFICATIONS:

Metering : 4 digit DPMs for voltage and current measurement.
Meter Accuracy : ±3 counts.
Constant Voltage Mode :
REGULATION :
Line : ±0.01% ±3mV for ±10% change in line voltage.
Load : ±0.01% ±3mV for load change from zero to full load.
Ripple & Noise : 1mV rms max. 20Hz to 20MHz./ <4mvVp-p

Constant Current Mode :
REGULATION :
Line : ±0.01% ±3mA for ±10% change in line voltage.
Load : ±0.01% ±3mA for change in output voltage from 0 volts to maximum output voltage.
Ripple & Noise(20Hz to Mhz):
<5mArms

Setting Resolution :
voltage : 10mV
current : 1mA

Setting & measurement Accuracy
voltage : <0.05%±10mV
current : <0.1%±5mA

Protection : internal protection circuit on set voltage/current

Floating voltage : up to 0-400V (DC+peak AC) between protective earth and any output terminal.

Stability : Total drift within 8 hours, after 30 minutes warm-up under constant line, load and temperature.
< ±0.2% ±10mV in CV mode.
< ±0.5% ±10mA in current mode.
Operating Temperature :

0 to 40°C.
Storage Temperature:
-20°C to 70°C

Line Voltage : 230V AC ±10%, single phase 50Hz.

Output Voltage & Current :
Output voltage : Ch1: 0 TO 60V
Ch2: 0 TO 60V
Ch3: 0 TO 5V

Output current : Ch1: 0 TO 3A
Ch2: 0 TO 3A
Ch3: 0 TO 3A

minimum Power : 375 watt

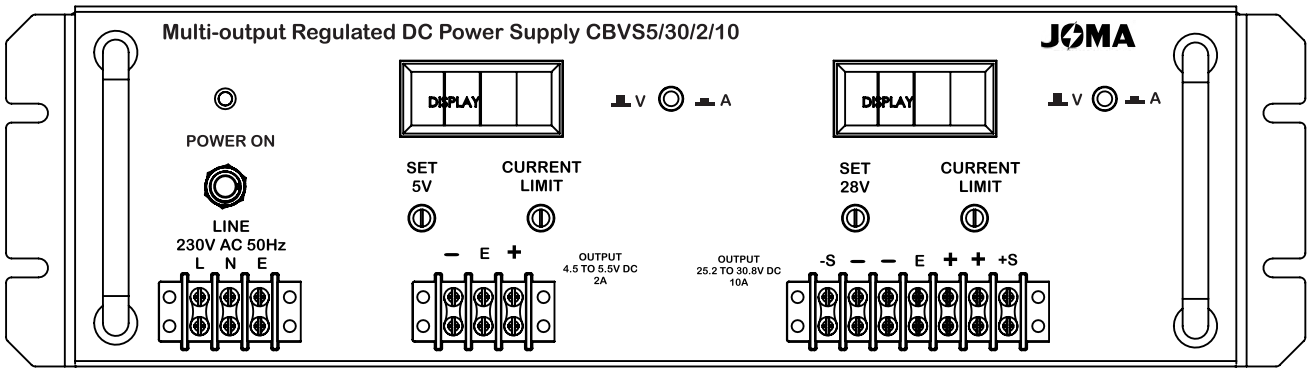
Dimensions : 430 x 133 x 450mm

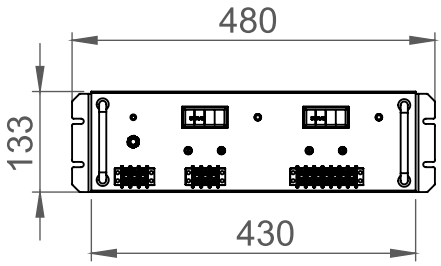
Weight: ≤25kg

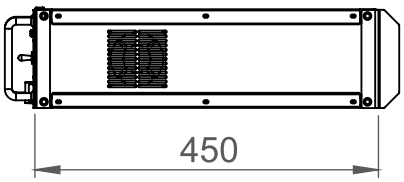
- Phase Controlled Pre- Regulation Plus Linear Post- Regulation
- One Digital Meters - 4 Digit DPMs with V/A Selector Switch
- Constant Voltage / Constant Current Operation
- USB & RS-485 Interface
- 3 independently programmable & isolated channels
- Over Temperature protection
- 10 turn potentiometer for v-set & i-set

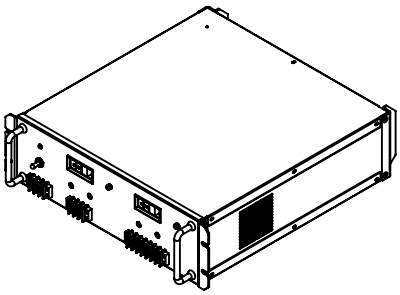
Connectivity & Software : USB connections to control & programme the power supply using PC based software & with complete control over all the channels to operate simultaneously.
via USB interface with HMI

Multi-output Regulated DC Power Supply CBVS5/30/2/10









SPECIFICATIONS:

Metering : 3 digit DPMs for voltage and current measurement.
Meter Accuracy : ±3 counts.
Constant Voltage Mode :
REGULATION :
Line : ±0.01% ±2mV for ±10% change in line voltage.
Load : ±0.01% ±2mV for load change from zero to full load.
Ripple & Noise : 1mV rms max. 20Hz to 20MHz.
Constant Current Mode :
REGULATION :
Line : ±0.05% ±250μA for ±10% change in line voltage.
Load : ±0.05% ±250μA for change in output voltage from 0 volts to maximum output voltage.
Ripple & Noise(20Hz to Mhz):
<350μVrms
Mode Indication : LED indication for constant voltage / constant current operation mode.
Output Polarity : Floating w.r.t. ground.
Overload Protection : Constant current type.

Transient Response : 100 micro sec within 10mV of set output voltage for load change from 10% to 90%.
Stability : Total drift within 8 hours, after 30 minutes warm-up under constant line, load and temperature.
< ±0.2% ±10mV in CV mode.
< ±0.5% ±10mA in current mode.
Operating Temperature :
0 to 50°C.
Temp. Coefficient : ±0.05% ±5mV per OC after initial warm-up of 30 minutes, in voltage mode.
Line Voltage : 230V AC ±10%, single phase 50Hz.

Output Voltage & Current :
Output voltage :
Ch1: 4.5 TO 5.5V

Ch2: 25.2 TO 30.8V

Output current :
Ch1: 0 TO 2A

Ch2: 0 TO 10A

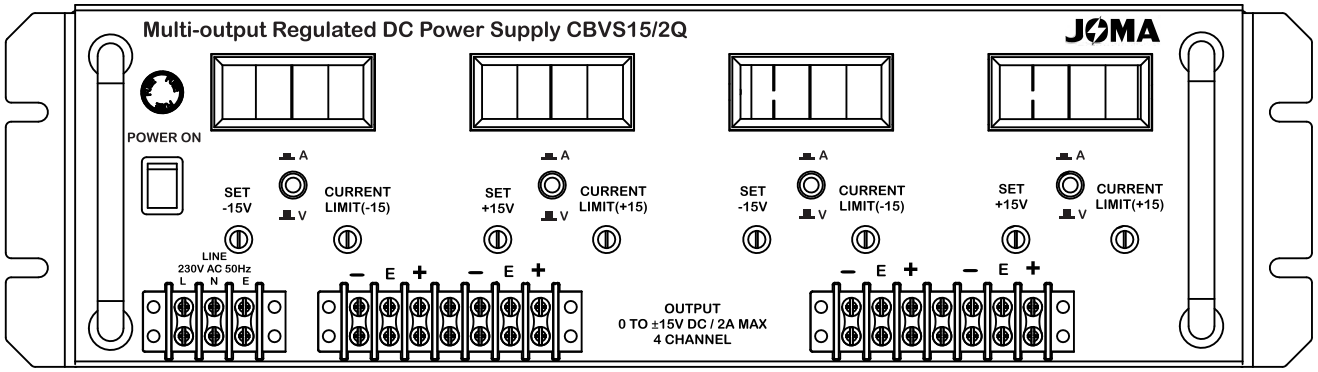
Dimensions : 430 x 133 x 450

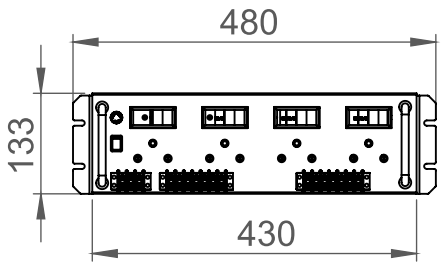
- Phase Controlled Pre- Regulation Plus Linear Post- Regulation
- One Digital Meters - 3 Digit DPMs with V/A Selector Switch
- Constant Voltage / Constant Current Operation
- 19” Rack Adaptable
- Remote Sensing
- High Stability and Close Regulation ±0.01%

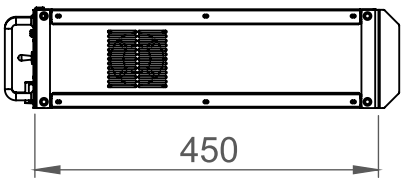
Special feature at Extra Cost

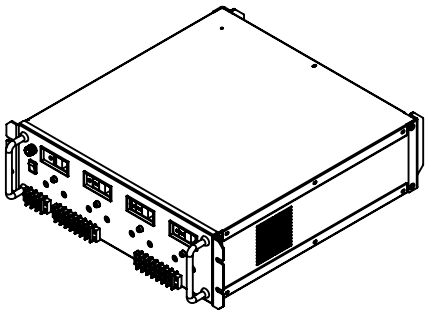
a) Presetting Facility
b) Over Voltage / Current Protection
c) 19” Rack Mounting
d) Analog programming & monitoring for Voltage & Current.

Multi-output Regulated DC Power Supply CBVS15/2Q









SPECIFICATIONS:

Metering : 3 digit DPMs for voltage and current measurement.
Meter Accuracy : ±3 counts.
Constant Voltage Mode :
REGULATION :
Line : ±0.01% ±2mV for ±10% change in line voltage.
Load : ±0.01% ±2mV for load change from zero to full load.
Ripple & Noise : 1mV rms max. 20Hz to 20MHz.
Constant Current Mode :
REGULATION :
Line : ±0.05% ±250μA for ±10% change in line voltage.
Load : ±0.05% ±250μA for change in output voltage from 0 volts to maximum output voltage.
Ripple & Noise(20Hz to Mhz):
<350μVrms
Mode Indication : LED indication for constant voltage / constant current operation mode.
Output Polarity : Floating w.r.t. ground.
Overload Protection : Constant current type.

Transient Response : 100 micro sec within 10mV of set output voltage for load change from 10% to 90%.
Stability : Total drift within 8 hours, after 30 minutes warm-up under constant line, load and temperature.
< ±0.2% ±10mV in CV mode.
< ±0.5% ±10mA in current mode.
Operating Temperature :
0 to 50°C.
Temp. Coefficient : ±0.05% ±5mV per OC after initial warm-up of 30 minutes, in voltage mode.
Line Voltage : 230V AC ±10%, single phase 50Hz.

Output Voltage & Current :
Output voltage :
Ch1: -15V TO 0
Ch2: 0 TO +15V
Ch3: -15V TO 0
Ch4: 0 TO +15V

Output current :
Ch1: 0 TO 2A
Ch2: 0 TO 2A
Ch3: 0 TO 2A
Ch4: 0 TO 2A

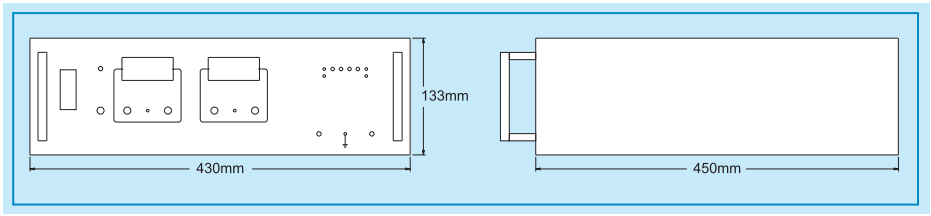
Dimensions : 430 x 133 x 450

- Phase Controlled Pre- Regulation Plus Linear Post- Regulation
- One Digital Meters - 3 Digit DPMs with V/A Selector Switch
- Constant Voltage / Constant Current Operation
- 19" Rack Adaptable
- Remote Sensing
- High Stability and Close Regulation ±0.01%

Special feature at Extra Cost

a) Presetting Facility
b) Over Voltage / Current Protection
c) 19" Rack Mounting
d) Analog programming & monitoring for Voltage & Current.

Multi-output Regulated DC Power Supply CBVS30/3T



- ***All 3 Channels are identical ; specifications for one are given below***

SPECIFICATIONS
Metering : 3 digit DPMs for voltage and current measurement.
Meter Accuracy : ±3 counts
Display Resolution: 10mV , 10mA

Constant Voltage Mode :
REGULATION :
Line : ±0.01% ±2mV for ±10% change in line voltage.
Load : ±0.01% ±2mV for load change from zero to full load.
Ripple & Noise : 1mV rms max. 20Hz to 20MHz.

Constant Current Mode :
REGULATION :
Line : ±0.01% ±10mA for ±10% change in line voltage.
Load : ±0.01% ±10mA for change in output voltage from 0 volts to maximum output voltage.
Ripple & Noise : 0.05% rms

Mode Indication : LED indication for constant voltage / constant current operation mode.

Output Polarity : Floating w.r.t. ground.

Overload Protection : Constant current type.

Transient Response : 100 micro sec within 10mV of set output voltage for load change from 10% to 90%.
Stability : Total drift within 8 hours, after 30 minutes warm-up under constant line, load and temperature.
< ±0.2% ±10mV in CV mode.
< ±0.5% ±10mA in current mode.
Operating Temperature :
0 to 50°C.
Temp. Coefficient : ±0.05% ±5mV per OC after initial warm-up of 30 minutes, in voltage mode.
Line Voltage : 230V AC ±10%, single phase 50Hz.

Output Voltage & Current :
Output voltage : 0-30V
Output current : 0-3A

Max Output Power(per channel):
≥90w
Total Output Power:
≥270W(Min)
Type of Interface: USB/LAN

- Phase Controlled Pre- Regulation Plus Linear Post- Regulation
- One Digital Meters - 3 Digit DPMs with V/A Selector Switch
- Constant Voltage / Constant Current Operation
- Interface - USB/LAN
- Remote Sensing Facility
- High Stability and Close Regulation ±0.01%

Special feature at Extra Cost

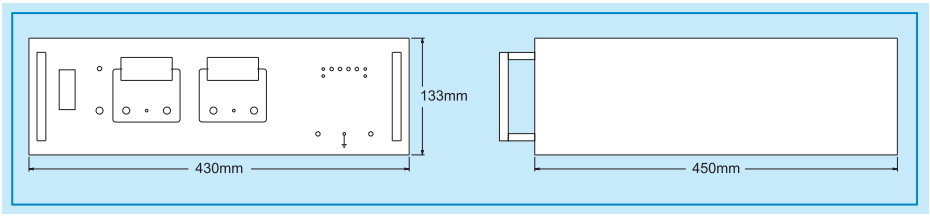
a) Presetting Facility
b) Over Voltage Protection
c) 19" Rack Mounting
d) Analog programming & monitoring for Voltage & Current.

Programming Resolution:
upto 10mV , 10mA

Programming Accuracy:
≤0.3% ±20mV

	PV	PI	DIMENSIONS	MODEL	WEIGHT
30V	0-30V	0-3A	430 x 133 x 450	CBVS30/3T	21.5

Multi-output Regulated DC Power Supply CBVS60/3T



- ***All 3 Channels are identical ; specifications for one are given below***

SPECIFICATIONS

Metering : 3 digit DPMs for voltage and current measurement.
Meter Accuracy : ±3 counts
Display Resolution: 10mV , 10mA

Constant Voltage Mode :
REGULATION :
Line : ±0.01% ±2mV for ±10% change in line voltage.
Load : ±0.01% ±2mV for load change from zero to full load.
Ripple & Noise : 1mV rms max. 20Hz to 20MHz. 4mV p-p

Constant Current Mode :
REGULATION :
Line : ±0.05% ±3mA for ±10% change in line voltage.
Load : ±0.05% ±3mA for change in output voltage from 0 volts to maximum output voltage.
Ripple & Noise : 4mA rms

Mode Indication : LED indication for constant voltage / constant current operation mode.

Output Polarity : Floating w.r.t. ground.

Overload Protection : Constant current type.

Transient Response : 100 micro sec within 10mV of set output voltage for load change from 10% to 90%.
Stability : Total drift within 8 hours, after 30 minutes warm-up under constant line, load and temperature.
< ±0.2% ±10mV in CV mode.
< ±0.5% ±10mA in current mode.
Operating Temperature :
0 to 50°C.
Temp. Coefficient : ±0.02% ±1mV per OC after initial warm-up of 30 minutes, in voltage mode.
Line Voltage : 230V AC ±10%, single phase 50Hz.

Output Voltage & Current :
Output voltage : 0-60V
Output current : 0-3A

Max Output Power(per channel):
≥180W
Total Output Power:
≥540W(Max)

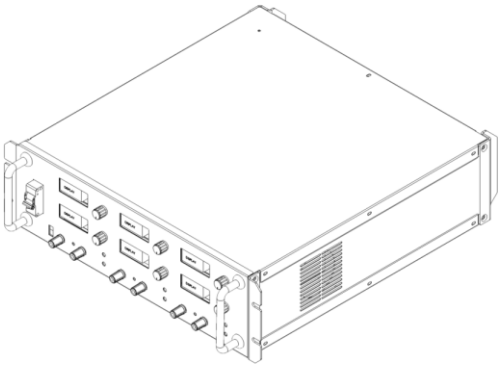
- Phase Controlled Pre- Regulation Plus Linear Post- Regulation
- One Digital Meters - 3 Digit DPMs with V/A Selector Switch
- Constant Voltage / Constant Current Operation
- Remote Sensing Facility
- High Stability and Close Regulation ±0.01%

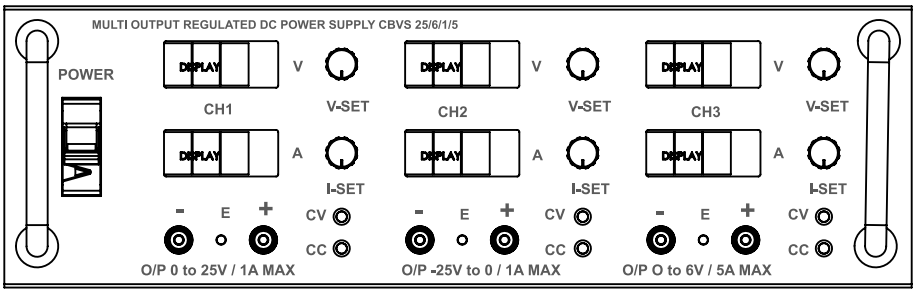
Special feature at Extra Cost

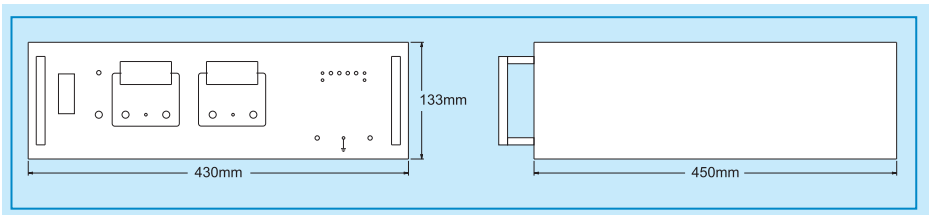
a) Presetting Facility
b) Over Voltage Protection
c) 19" Rack Mounting
d) Analog programming & monitoring for Voltage & Current.

	PV	PI	DIMENSIONS	MODEL	WEIGHT
60V	0-60V	0-3A	430 x 133 x 450	CBVS60/3T	21.5

Multi-output DC Power Supply
CBVS 25/6/1/5







- Phase controlled pre-regulation plus linear post regulation
- High stability and close regulation
- 4 Digit digital display for V&I
- Remote sensing
- USB Interface
- Front panel potentiometer to set V&I
- High current density.

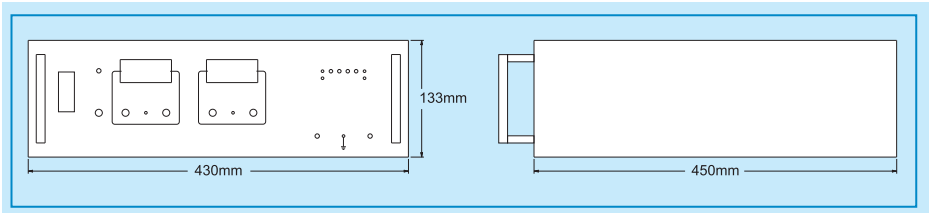
Special feature (Optional)

- Over voltage protection
- 19" rack mounting
- Analogue programming and monitoring for V&I

MODEL	CBVS 25/6/1/5		
Input Voltage	230V AC, ±10%, 50Hz, 1phase		
Output Voltage	Ch1: 0 to 25V	Ch2: -25V to 0	Ch3: 0 to 6V
Output Current	0 to 1A	0 to 1A	0 to 5A
No. Output	3		
Line Regulation CV *	±0.01% ±2mV		
Load Regulation CV !	±0.01% ±2mV		
Line Regulation CC *	±0.01% ±1mA		
Load Regulation CC !!	±0.01% ±1mA		
Output Ripple CV (max)	2mV rms		
Output Ripple CC (max)	2mA rms		
Setting Resolution	10mV & 10mA		
Operating Temp.	0 to 40°C		
Protection	OV/OC/OT (constant current type)		
Indications (LED)	CV & CC		
3 Digit DPM	V & I		
Meter Accuracy	±3 counts		
Input On/Off	M.C.B.		
Single Turn Pots	V Set & I Set (Coarse & Fine)		
Dimensions apprx.** W × H× D	430mm × 133 mm (3U) × 450 mm		

Multi-output DC Power Supply
CBVS 30/5/3

- Phase controlled pre-regulation plus linear post regulation
- High stability and close regulation
- 3 Digit digital display for V&I
- Remote sensing
- Front panel potentiometer to set V&I
- High current density.



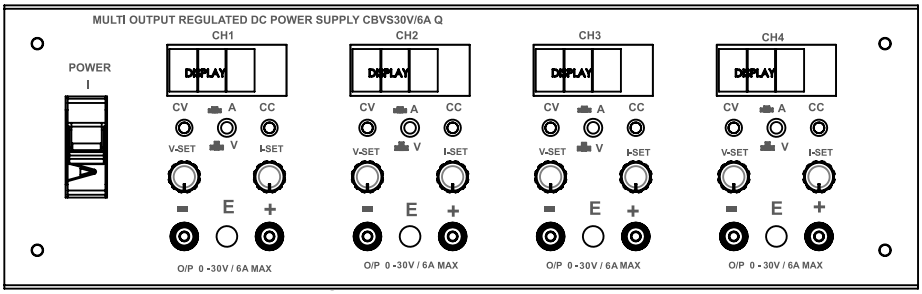
Special feature (Optional)

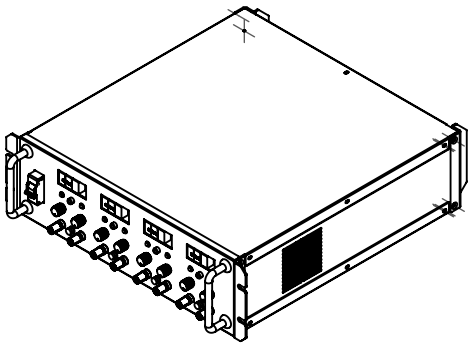
- Over voltage protection
- 19" rack mounting
- Analogue programming and monitoring for V&I

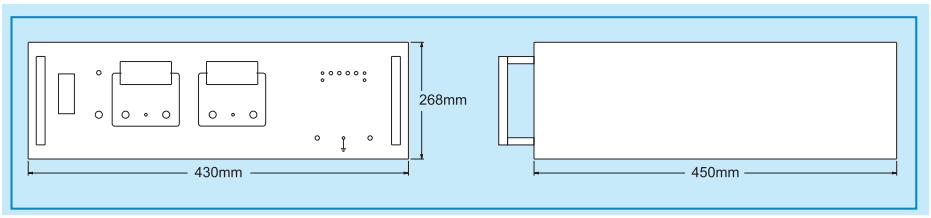
Note: During series mode CH-1 meter will read combined voltage

MODEL	CBVS 30/5/3		
Input Voltage	230V AC, ±10%, 50Hz, 1phase		
Output Voltage	Ch1 - 0 to 30V	Ch2 - 0 to 30V	Ch3 - 0 to 5V
Output Current	0 to 3A	0 to 3A	0 to 3A
Maximum Power	<220W		
Line Regulation CV *	≤0.02% ±4mV		
Load Regulation CV !	≤0.02% ±4mV		
Line Regulation CC *	≤0.2% ±3mA		
Load Regulation CC !!	≤0.2% ±3mA		
Output Ripple CV (max)	≤1mV rms / 5mVp-p		
Output Ripple CC (max)	≤6mA rms		
Setting Resolution & Accuracy	voltage: 10mV, ≤0.06% ± 20mv current: 1mA, ≤0.2% ± 10mA		
Operating mode	series & parallel toggle for V & I combinations		
Operating Temp.	0 to 50°C		
Protection	OL/SC (constant current type)		
Indications (LED)	CV & CC		
3 Digit DPM	V & I (LED Display)		
Meter Accuracy	±3 counts		
Input On/Off	M.C.B.		
Single Turn Pots	V Set & I Set (Coarse & Fine)		
Dimensions apprx.** W × H× D	430mm × 133 mm (3U) × 450 mm		

Multi-output DC Power Supply
CBVS 30V/6A Q





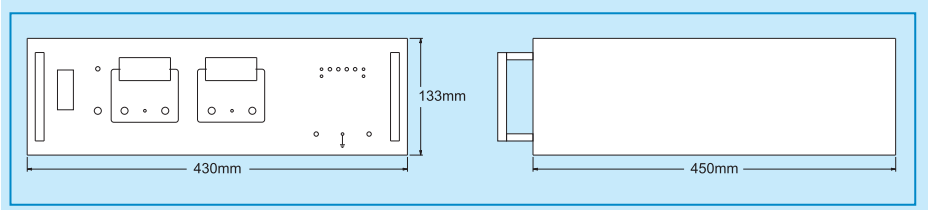


- Bench Top type power supply
- Phase controlled pre-regulation plus linear post regulation
- High stability and close regulation
- 3 Digit digital display for V&I
- V - A Switch provided
- Front panel potentiometer to set V&I
- High current density.
- Optional 4 digit DPM as per requirement.

MODEL	CBVS 30V/6A Q			
Input Voltage	230V AC, ±10%, 50Hz, 1phase			
Output Voltage	Ch1 - 0 to 30V	Ch2 - 0 to 30V	Ch3 - 0 to 30V	Ch4 - 0 to 30V
Output Current	0 to 6A	0 to 6A	0 to 6A	0 to 6A
Output Power	180W per channel			
Line Regulation CV *	≤0.05% ±5mV			
Load Regulation CV !	≤0.05% ±5mV			
Line Regulation CC *	≤0.2% ±5mA			
Load Regulation CC !!	≤0.2% ±5mA			
Output Ripple CV (max)	≤1mV rms			
Output Ripple CC (max)	≤2mA rms			
Output	All 4 channels are isolated from each other			
Interface	USB			
Single Turn Pots	V set & I set			
Operating Temp./ Humid.	0 to 50°C / ≤80%Rh			
Protection	OL/SC (constant current type), OVP, OCP			
Indications (LED)	CV & CC			
3 Digit DPM	Voltmeter & Ammeter			
Meter Accuracy	±3 counts			
Resolution	voltage : 15mV	current : 1mA		
Setting Accuracy	voltage : ≤0.3% ± 20mV	current : ≤0.3% ± 20mA		
Readback Accuracy	voltage : ≤0.3% ± 20mV	current : ≤0.3% ± 20mA		
Input On/Off	M.C.B.			
Dimensions apprx.** W × H× D	430mm × 268 mm (6U) × 450 mm			
Weight apprx.** (kgs)	45 kg			

Multi-output DC Power Supply
CBVS 30/12/5/3

- Phase controlled pre-regulation plus linear post regulation
- High stability and close regulation
- 4 Digit digital display for V&I
- Remote sensing
- Front panel potentiometer to set V&I
- High current density.



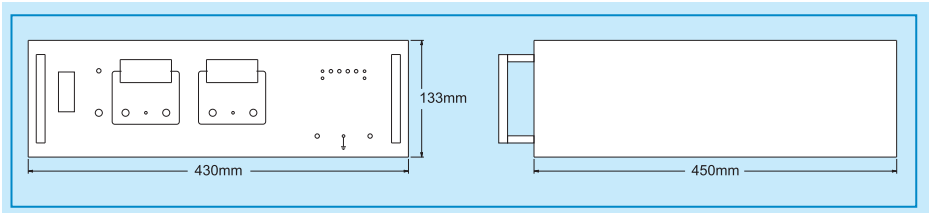
Special feature (Optional)

- Over voltage protection
- 19" rack mounting
- Analogue programming and monitoring for V&I

MODEL	CBVS 30/12/5/3		
Input Voltage	230V AC, ±10%, 50Hz, 1phase		
Output Voltage	Ch1 - 0 to 30V	Ch2 - 0 to 12V	Ch3 - 0 to 5V
Output Current	0 to 3A	0 to 3A	0 to 3A
Line Regulation CV *	±0.01% ±2mV		
Load Regulation CV !	±0.01% ±2mV		
Line Regulation CC *	±0.05% ±2mA		
Load Regulation CC !!	±0.05% ±2mA		
Output Ripple CV (max)	1mV rms		
Output Ripple CC (max)	0.05% rms		
Setting Resolution	10mV & 1mA		
Remote Sense	Provided		
Operating Temp.	0 to 50°C		
Protection	OL/SC (constant current type)		
Indications (LED)	CV & CC		
4 Digit DPM	V & I		
Meter Accuracy	±3 counts		
Input On/Off	M.C.B.		
Single Turn Pots	V Set & I Set (Coarse & Fine)		
Dimensions apprx.** W × H× D	430mm × 133 mm (3U) × 450 mm		

Multi-output DC Power Supply
CBVS 32D/5/3

**for reference only



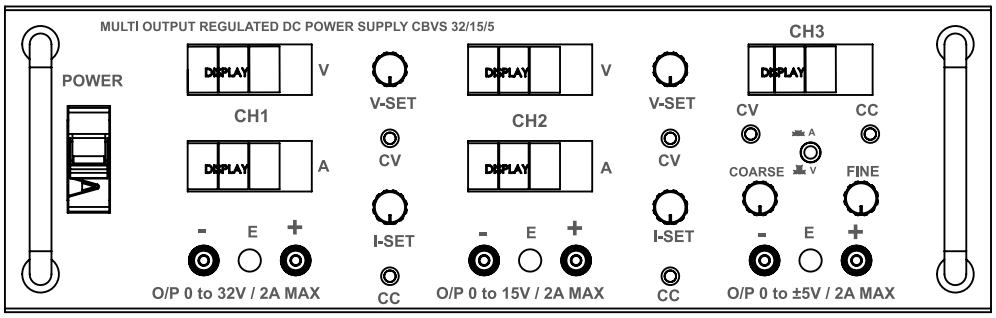
- Phase controlled pre-regulation plus linear post regulation
- High stability and close regulation
- Digital Meters - 4 Digit DPMs with V/A Selector Switch
- Remote sensing
- Front panel potentiometer to set V&I
- High current density.
- Over voltage protection
- PC interface software
- Mains cord provided internally

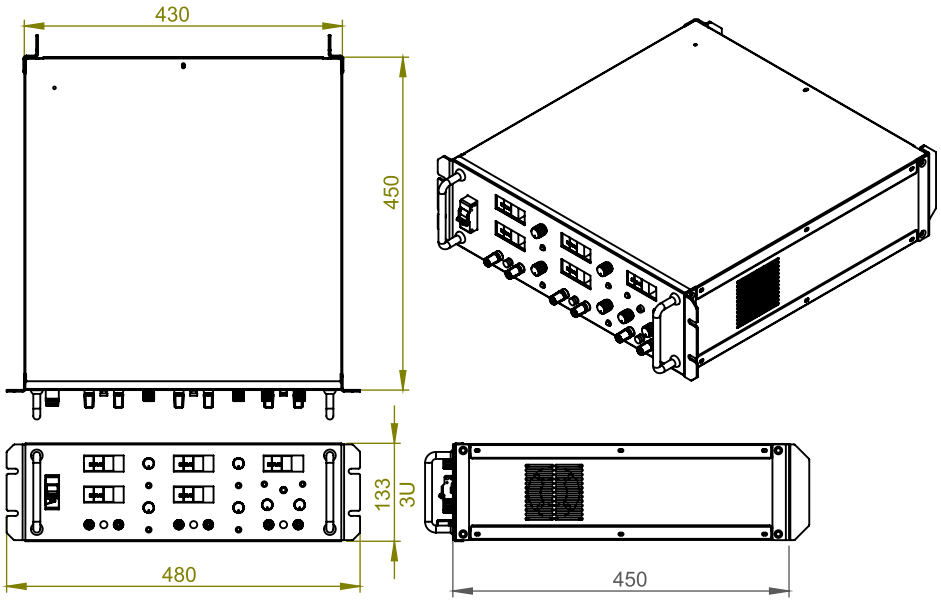
Special feature (Optional)

- 19" rack mounting
- Analogue programming and monitoring for V&I

MODEL	CBVS 32D/5/3 (3 CHANNELS)		
Input Voltage	230V AC, ±10%, 50Hz, 1phase		
Output Voltage	Ch1 - 0 to +32V	Ch2 - 0 to -32V	Ch3 - 5V (fixed)
Output Current	0 to +3A	0 to -3A	3A (fixed)
Maximum Power	200W		
PC Interface Software	**Memory Function:** 50 sets memory function to store/recall data		
	Auto Step Running: auto step running with timer setting of 1 sec - 99min & resolution 1 sec		
	Interface: RS-485		
Line Regulation CV *	±0.01% ±3mV		
Load Regulation CV !	±0.01 % ±3mV		
Line Regulation CC *	±0.1% ±250µA		
Load Regulation CC !!	±0.1% ±250µA		
Output Ripple CV (max)	1mV rms		
Output Ripple CC (max)	0.04% rms		
Display Resolution	10mV & 1mA		
Tracking fuction(series)	Auto series tracking error ≤0.1%±50mV		
Operating Temp.	0 to 40°C / ≤80%RH		
Protection	OVP (0 to+33V, 0 to -33V), OL/SC (constant current type), OC		
Indications (LED)	CV & CC, OVP (CH1,CH2)		
4 Digit DPM	V & I		
Prog. & Readback Accuracy	voltage: ≤0.05% ±25mV	current: ≤2% ±10mA	
Input On/Off	M.C.B.		
Multi Turn Pots	V Set & I Set, OVP set(CH1, CH2)		
Weight kgs**.	22.5kg		
Dimensions apprx.** W × H× D	430mm × 133 mm (3U) × 450 mm		
Accessories	test leads, user manual		

Multi-output DC Power Supply
CBVS 32/15/5





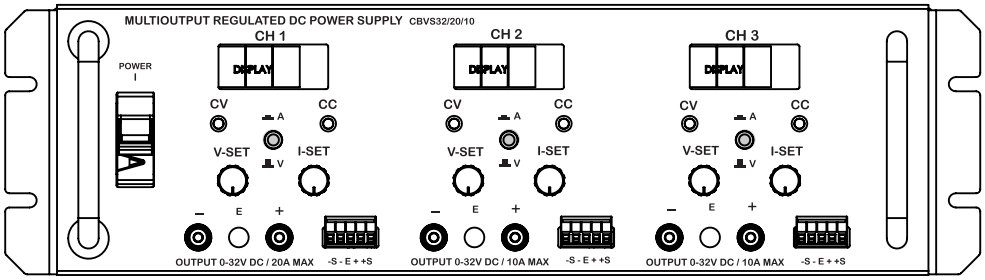
- Phase controlled pre-regulation plus linear post regulation
- High stability and close regulation
- One Digital Meters - 3 Digit DPMs with V/A Selector Switch
- 3 Digit digital display for V&I for CH1 & CH2
- Front panel potentiometer to set V&I
- High current density.

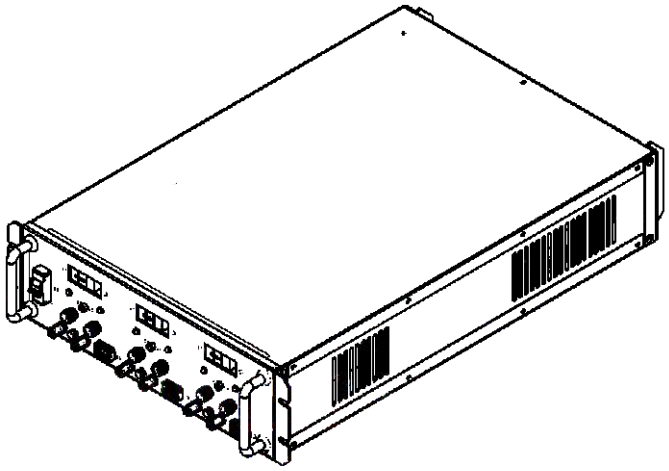
Special feature (Optional)

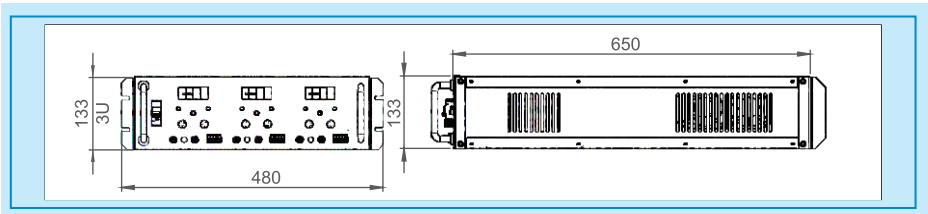
- Over voltage protection
- 19" rack mounting
- Analogue programming and monitoring for V&I

MODEL	CBVS 32/15/5		
Input Voltage	230V AC, ±10%, 50Hz, 1phase		
Output Voltage	Ch1 : 0 to 32V	Ch2 : 0 to 15V	Ch3 : 0 to ±5V
Output Current	0 to 2A	0 to 2A	0 to 2A
Line Regulation CV *	±0.01% ±2mV		
Load Regulation CV !	±0.01% ±2mV		
Line Regulation CC *	±0.1% ±2mA		
Load Regulation CC !!	±0.1% ±2mA		
Output Ripple CV (max)	1mV rms		
Output Ripple CC (max)	0.05% rms		
Setting Resolution	10mV & 1mA		
Operating Temp.	0 to 50°C		
Protection	OL/SC (constant current type)		
Indications (LED)	CV & CC		
4 Digit DPM	V & I		
Meter Accuracy	±3 counts		
Input On/Off	M.C.B.		
Single Turn Pots	V Set & I Set (Coarse & Fine)		
Dimensions apprx.** W × H× D	430mm × 133 mm (3U) × 450 mm		

Multi-output DC Power Supply
CBVS 32/20/10







- Phase controlled pre-regulation plus linear post regulation
- High stability and close regulation
- One Digital Meter per channel 3 Digit DPMs with V/A Selector Switch
- Constant Voltage / Constant Current Operation
- Remote sensing
- USB /RS232 Interface
- Front panel potentiometer to set V&I
- High current density.

Special feature (Optional)

- Over voltage protection
- 19" rack mounting
- Analogue programming and monitoring for V&I

MODEL	CBVS 32/20/10		
Input Voltage	230V AC, ±10%, 50Hz, 1phase		
Output Voltage	Ch1 - 0 to 32V	Ch2 - 0 to 32V	Ch3 - 0 to 32V
Output Current	0 to 20A	0 to 10A	0 to 10A
Maximum Power	640W		
Line Regulation CV *	±0.01% ±2mV		
Load Regulation CV !	±0.01% ±2mV		
Line Regulation CC *	±0.01% ±2mA		
Load Regulation CC !!	±0.01% ±2mA		
Output Ripple CV (max)	≤1mV rms / 4mVp-p		
Output Ripple CC (max)	≤5mA rms		
Setting Resolution	1mV & 1mA		
Remote Sense	provided		
Operating Temp.	0 to 50°C		
Protection	OL/SC (constant current type)		
Indications (LED)	CV & CC		
3 Digit DPM	V & I (LED Display)		
Meter Accuracy	±3 counts		
Input On/Off	M.C.B.		
Single Turn Pots	V Set & I Set (Coarse & Fine)		
Dimensions apprx.** W × H× D	430mm × 133 mm (3U) × 650 mm		