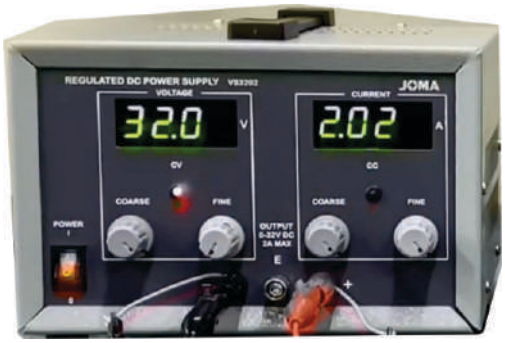
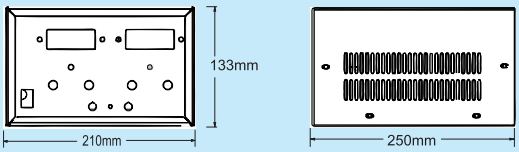
JOMA

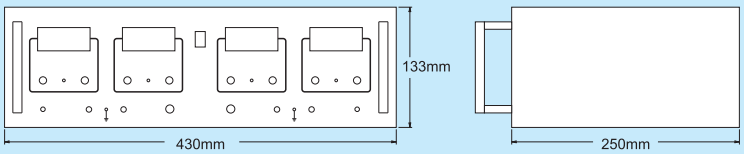
Next Gen Power

DC Power Supplies

30 W - 300 W DC Power Supplies







We offers a range 30 to 300 watts of Linear DC Regulated Power Supplies for use in Laboratories & Industries.

These table top units are designed for 19” Rack Mounting.

There are 15 models to choose from, with output power ranging from 30 watts to 300 watts. Output voltages of 0-16V, 0-32V, 0-64V and 0-128V DC are available for single output supplies. There are four Dual output models with two independent isolated outputs. These outputs could be connected in series or parallel to double the voltage or current.

All the models operate in either constant voltage or constant current mode and are fully protected against continuous output short circuit and overload.

Special Features at Extra Cost

1) 19” Rack mounting only for PS with 430mm width.

2) Input 115V AC ±10%

- Optional Interface: RS232 / RS485 / USB
- Proven Reliability and Endurance
- 19” Rack Adaptable - 3U High
- Digital Output Metering 4 Digit DPM
- Constant Voltage/Constant Current Operation
- Remote Sensing Facility for 5A & Above Rating Models
- High Stability and Close Regulation ±0.01%

30 W - 300 W DC Power Supplies

DIGITAL LAB SELECTION GUIDE

SINGLE OUTPUT 30-300W				
OUTPUT	DC OUTPUT		DIMENSIONS	MODEL
	VOLTAGE	CURRENT	W x H x D (mm)	
16V	0-16V	0-1A	210 x 133 x 250	VS1601
	0-16V	0-2A	210 x 133 x 250	VS1602
	0-16V	0-6A	430 x 133 x 250	VS1606
	0-16V	0-10A	430 x 133 x 250	VS1610
32V	0-32V	0-1A	210 x 133 x 250	VS3201
	0-32V	0-2A	210 x 133 x 250	VS3202
	0-32V	0-5A	430 x 133 x 250	VS3205
	0-32V	0-10A	430 x 133 x 250	VS3210
64V	0-64V	0-3A	430 x 133 x 250	VS6403
	0-64V	0-5A	430 x 133 x 250	VS6405
128V	0-128V	0-2.5A	430 x 133 x 250	VS1282

DIGITAL LAB SELECTION GUIDE

DUAL OUTPUT				
OUTPUT	VOLTAGE	CURRENT	DIMENSIONS W x H x D (mm)	MODEL
DUAL	0-32V	0-2A	430 x 133 x 250	VSD3202
	0-32V	0-3A	430 x 133 x 250	VSD3203
	0-16V	0-6A	430 x 133 x 450	VSD1606
	0-64V	0-2A	430 x 133 x 450	VSD6402

Load Regulation to be measured at sense terminals wherever provided.

SPECIFICATIONS

Output Voltage & Current : See Selection Guide.

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

Constant Current Mode :
Regulation :
Line : ± 0.1 % ±250μA for ±10% line change.
Load : ± 0.1 % ±250μA for change in output voltage from 0 Volts to maximum output voltage.
Ripple & Noise : 0.04% rms.

Metering : 3 Digit DPM.

Meter Accuracy : ±3 counts.

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

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

Overload Protection : Automatic overload and short circuit protection.

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

Stability : Total drift within 8 hours, after warm-up.
<±0.2% plus 5mV in constant voltage mode.
<±0.5% plus 5mA in constant current mode with constant line, load and ambient temperature conditions.

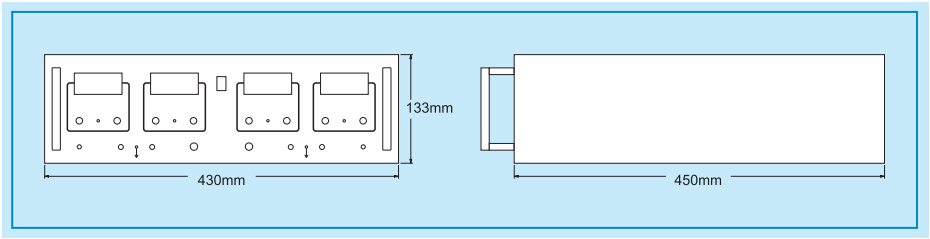
Operating Temperature : 0-50°C.

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

NOTE : REGULATION TO BE MEASURED AT SENSE TERMINALS.

CUSTOM CAPABILITY :
SPECIAL VOLTAGE AND CURRENT RATINGS AVAILABLE ON REQUEST.

Dual Output
300W - 2000W DC Power Supplies



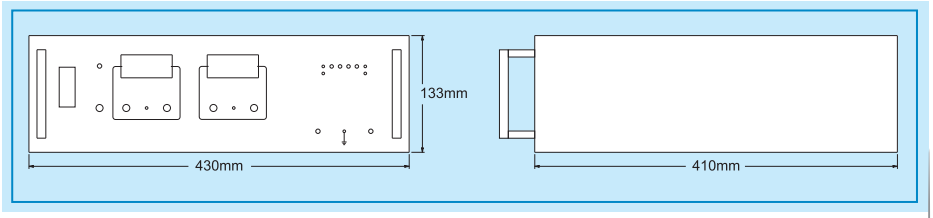
- High current density.
- Remote sensing.
- 19" rack adaptable -3U high
- 300W to 2000W different combinations
- Front panel potentiometer to set V&I
- 3 Digit seven segment display for V&I
- High stability and close regulation
- Phase controlled pre-regulation plus linear post regulation

Special Features at Extra Cost

- Over voltage protection
- 19" rack mounting
- Analogue programming and monitoring for V&I
- Digital meters - 4 digit DPMs
- Optional interface: RS232 / RS485 / USB

MODEL	VSD3205	VSD3210	VSD3220	VSD6405	VSD6410	VSD6420	VSD1282	VSD1285	VSD1288
Input Voltage	230VAC ±10%, 50Hz, 1Phase								
Output Voltage	0 to 32V	0 to 32V	0 to 32V	0 to 64V	0 to 64V	0 to 64V	0 to 128V	0 to 128V	0 to 128V
Output Current	0 to 5A	0 to 10A	0 to 20A	0 to 5A	0 to 10A	0 to 20A	0 to 2.5A	0 to 5A	0 to 8A
Line Regulation CV *	≤0.01% ±2mV								
Line Regulation CC !	≤0.1% ±2mA								
Load Regulation CV *	≤0.01% ±2mV								
Load Regulation CC !!	≤0.1% ±2mA								
Output Ripple CV (max.)	1mV rms								
Output Ripple CC (max.)	0.05%								
Remote Sensing	Provided								
Operating Temp.	0 to 50°C								
Protection	OL/SC (constant current type)								
Indication (LED)	CV/CC								
3 Digit DPM	V & I								
Meter Accuracy	±3 counts								
Input on/off	MCB								
Single Turn Pots Coarse & Fine	V set & I set								
Dimensions apprx. **	430W × 133H × 450D (mm)								
Weight apprx. (Kg)	22.0	22.5	30	22.0	22.5	28	20	20	23

300W - 1.2KW DC Power Supplies



- Phase Controlled Pre- Regulation Plus Linear Post- Regulation
- Two Digital Meters - 3 Digit DPMs
- Constant Voltage / Constant Current Operation
- 19" Rack Adaptable
- Remote Sensing Facility
- High Stability and Close Regulation ±0.01%

Special Features at Extra Cost

a) Presetting Facility
b) Over Voltage Protection
c) 19" Rack Mounting
d) Analog programming & monitoring for Voltage & Current.
e) Digital meters - 4 digit DPMs
f) Optional interface: RS232 / RS485 / USB

SPECIFICATIONS

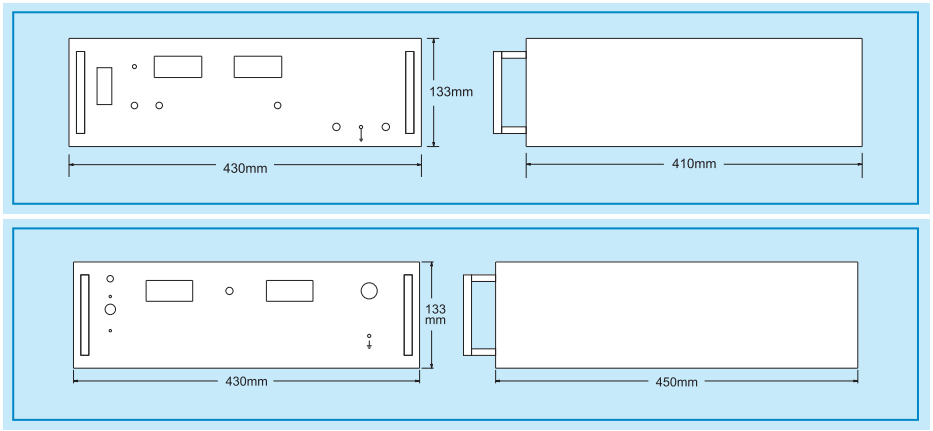
Metering : 3 digit DPMs for voltage and current measurement.
Meter Accuracy : ±3 counts.
Constant Voltage Mode :
REGULATION :
Line : ±0.01% ±2mV for ±10% change in line voltage.
Load : ±0.01% ±2mV for load change from zero to full load.
Ripple AND Noise : 1mV rms max. 20Hz to 20MHz.
Constant Current Mode :
REGULATION :
Line : ±0.1% ±10mA for ±10% change in line voltage.
Load : ±0.1% ±10mA for change in output voltage from 0 volts to maximum output voltage.
Ripple AND Noise : 0.04% 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.

SELECTION GUIDE

	PV	PI	DIMENSIONS	MODEL	WEIGHT
16V	0-16V	0-20A	430 x 133 x 410	VS1620	16.8
	0-16V	0-40A	430 x 133 x 410	VS1640	20.8
32V	0-32V	0-20A	430 x 133 x 410	VS3220	18.8
	0-32V	0-30A	430 x 133 x 410	VS3230	21.5
64V	0-64V	0-10A	430 x 133 x 410	VS6410	18.0
	0-64V	0-20A	430 x 133 x 410	VS6420	23.4
128V	0-128V	0-5A	430 x 133 x 410	VS1285	18.5
	0-128V	0-8A	430 x 133 x 410	VS1288	20.5

300V - 5000V DC Power Supplies

High Voltage Series Power Supply



The New HIGH VOLTAGE DC Series offers a range of Regulated Supplies for use in Industries, PIV, HV, etc Research Labs, Capacitor Testing. The range has seven models. All the models have electrically floating outputs and operate in constant voltage current limiting mode.

The 3000V & 5000V models have two versions each. The Suffix N is used when negative output terminal is grounded & P is used when Positive output terminal is grounded.

SPECIFICATIONS

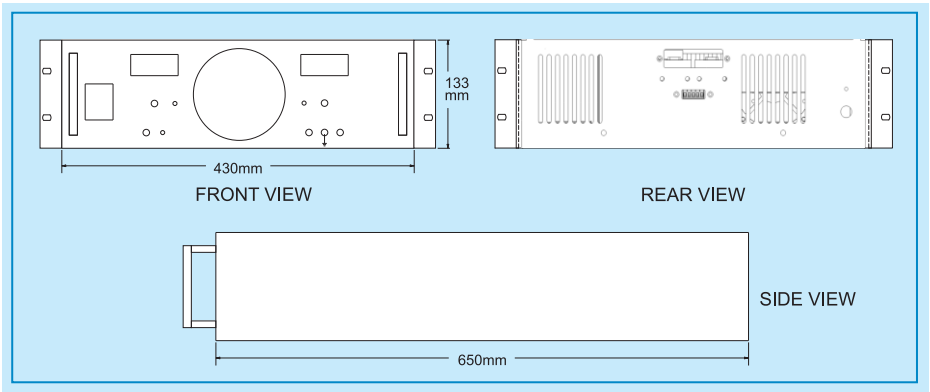
Output Voltage & Current : See Selection Guide.
Metering : 3 digit DPM to indicate voltage & current
Regulation :
Line : ±0.1%.
Load : ±0.1%.
Ripple & Noise : 0.05% rms.
Operating Temperature : 0-50 C.
Line Voltage : 230V AC ±10%, 50Hz single phase. Output protected against Short Circuit.

- 19" Rack Adaptable
- Laboratory Bench Unit
- Digital Output Metering 4 digit DPMs
- Constant Voltage / Constant Limit Type Character
- Micro Switch Provided for Protection against Shock
- 3U High (133 mm)
- Power Saving Thyristor Pre regulator Technique
- Optional interface: RS232 / RS485 / USB

SELECTION GUIDE

	PV	PI	DIMENSIONS	MODEL
300V	15-300V	1.00A	430 x 133 x 410	VS0310
	15-300V	3.00A	430 x 133 x 410	VS0330
	15-300V	5.00A	430 x 177 x 410	VS0350
600V	30-600V	1.50A	430 x 133 x 410	VS0615
1000V	100-1000V	1.00A	430 x 133 x 410	VS1010
3000V	-300 to -3000V	0.05A	430 x 133 x 450	VS3K05P
	+300 to +3000V	0.05A	430 x 133 x 450	VS3K05N
5000V	-500 to -5000V	0.02A	430 x 133 x 450	VS5K02P
	+500 to +5000V	0.02A	430 x 133 x 450	VS5K02N

2KW DC Power Supplies



- Phase controlled pre-regulation plus linear post regulation
- High stability and close regulation
- 3 Digit seven segment display for V&I
- Remote sensing
- 19" rack adaptable -3U high
- Front panel potentiometer to set V&I
- 2000W different combination
- High current density.

Special Features at Extra Cost

- Over voltage protection
- 19" rack mounting
- Analogue programming and monitoring for V&I
- Digital meters - 4 digit DPMs
- Optional interface: RS232 / RS485 / USB

MODEL	VS1699	VS3260	VS6430	VS8025	VS12815
Input Voltage	230V AC / 415V AC, ±10%, 50Hz, 1Phase/ 2 Phase				
Output Voltage	0 to 16V	0 to 32V	0 to 64V	0 to 80V	0 to 128V
Output Current	0 to 100A	0 to 60A	0 to 30A	0 to 25A	0 to 15A
Line Regulation CV *	≤0.01% ±5mV				
Load Regulation CV !	≤0.01% ±5mV				
Line Regulation CC *	≤0.1% ±10mA				
Load Regulation CC !!	≤0.1% ±10mA				
Output Ripple CV (max)	1mV rms				
Output Ripple CC (max)	100mA rms				
Remote Sensing	Provided				
Operating Temp.	0 to 50°C				
Protection	OL/SC (constant current type)				
Indications (LED)	CV & CC				
3 Digit DPM	V & I				
Meter Accuracy	±3 counts				
Input On/Off	M.C.B.				
Multi Turn Pot	V Set & I Set				
Dimensions apprx.** W × H× D	19 inches × 133 mm × 650 mm				
Weight apprx. (Kg)	36.0.	44.0			

Terminals: Input and output at rear side

3KW DC Power Supplies

ELECTRICAL SPECIFICATION: 3KW DC POWER SUPPLY

- 2200W to 3200W different combination
- High current density
- 19” rack adaptable-5U high
- Front panel potentiometer to set V&I
- Remote sensing.
- 3 Digit seven segment display for V&I
- High stability and close regulation.
- Phase controlled pre-regulation plus linear post regulation.

Special Features at Extra Cost

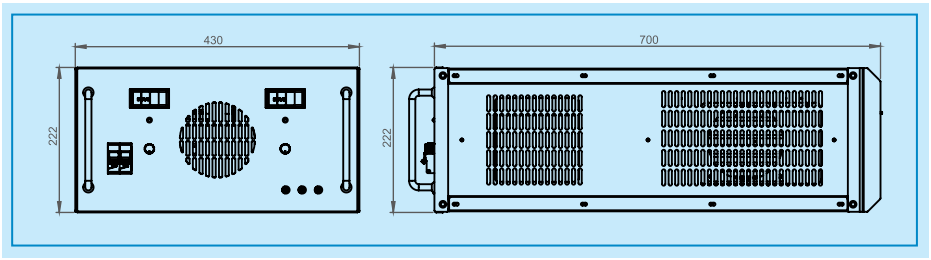
- Over voltage protection
- 19” rack mounting.
- Analogue programming can be provided only for model no. VS3299, VS6450 & VS12825.
- Digital meters - 4 digit DPMs
- Optional interface: RS232 / RS485 / USB

3KW DC Power Supplies

ELECTRICAL SPECIFICATION: 3KW DC POWER SUPPLY

MODEL	VS3299	VS6450	VS12825	VS3010	VS0650	VS1030
Input Voltage	230V AC / 415 V AC , ±10% , 1 Phase / 2 Phase					
Input Frequency	50Hz±2Hz					
Output Voltage	0 to 32V	0 to 64V	0 to 128V	30 to 300V	60 to 600V	150 to 1000V
Output Current	0 to 100A	0 to 50A	0 to 25A	0 to 10A	0 to 5A	0 to 3A
Line Regulation CV*	≤0.01%±2mV	≤0.01%±2mV	≤0.01%±2mV	≤0.01%±2mV	≤0.01%±2mV	0.01%±2mV
Line Regulation CC*	≤0.1%±10mA	≤0.1%±10mA	≤0.1%±10mA	NA	NA	NA
Load Regulation CV	≤0.01%±2mV	≤0.01%±2mV	≤0.01%±2mV	≤0.01%±2mV	≤0.01%±2mV	0.01%±2mV
Load Regulation CC	≤0.1%±10mA	≤0.1%±10mA	≤0.1%±10mA	NA	NA	NA
Output Ripple CV	1mV rms	1mV rms	1mV rms	10mV rms	10mV rms	10mV rms
Output Ripple CC	100mA rms	100mA rms	100mA rms	NA	NA	NA
Remote Sensing	Provided	Provided	Provided	NA	NA	NA
Operating Temp.	0 to 50°C	0 to 50°C	0 to 50°C	0 to 50°C	0 to 50°C	0 to 50°C
Protection	OL/SC	OL/SC	OL/SC	OL/SC	OL/SC	OL/SC
Indication (LED)	CV/CC	CV/CC	CV/CC	CV/CL	CV/CL	CV/CL
3 Digit DPM	V & I	V & I	V & I	V & I	V & I	V & I
Meter Accuracy	±3 count	±3 count	±3 counts	±3 count	±3 counts	±3 counts
Controls (2Pole MCB)	Input On/Off	Input On/Off	Input On/Off	Input On/Off	Input On/Off	Input On/Off
Multi Turn Pots	'V' Set/'I' Set	'V' Set/'I' Set	'V' Set/'I' Set	'V' Set/'I Set'	'V' Set/'I' Set	'V' Set/'I' Set
Dimensions (approx) W x H x D (mm) * *	430x221x700	430x221x700	430x221x700	430x221x700	430x221x700	430x221x700

High Voltage DC Power Supplies



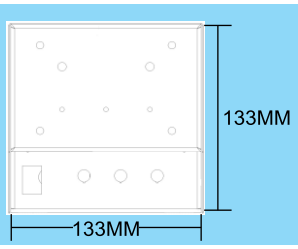
Special Feature (Optional)

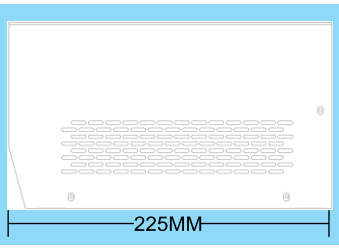
- 19" rack mounting

ELECTRICAL SPECIFICATION: High Voltage DC POWER SUPPLY

MODEL	CBVS 1500V / 1A	CBVS 2000V / 1A	CBVS 3000V / 1A
Input Voltage	230VAC ±10% ,1 PHASE		
Output Power	1.5 kw	2 kw	3 kw
Input Frequency	50Hz ±2Hz		
Output Voltage	150 to 1500V	200 to 2000V	300 to 3000V
Output Current	0 to 1A	0 to 1A	0 to 1A
Line Regulation CV*	≤0.1%±2mV		
Load Regulation CV	≤0.1%±2mV		
Output Ripple CV	0.1%		
Voltage Stability	0.3%		
Protection	OL/SC		
Indication (LED)	CV/CL		
4 Digit DPM	V & I		
Meter Accuracy	±3 count		
Controls (2Pole MCB)	Input On/Off		
Multi Turn Pots	'V' Set/'I' Set		
Dimensions (approx) W x H x D (mm) * *	430x221x700		

Fix Linear Power Supply Series With Dual Tracking





FEATURES

- Specially Designed for OEM Use Battery Eliminator/Float Charger
- Output Voltage Adjustability ±10%
- Quality Components and Conservative Ratings for High Reliability and Long Life
- High Regulation, Low Ripple and Noise
- Suitable for Bench/Rack Use

SPECIFICATIONS

INPUT VOLTAGE :
230V AC ±10%. Single phase 50Hz.
OUTPUT VOLTAGE AND CURRENT :
See Selection Guide.
Adjustability : ±10% of rated voltage.
Regulation: Line : 0.05%.* Load : 0.05%.*
Ripple & Noise : 1mV rms.
Protection : Overload & short circuit.
Stability : 0.3%. **
Transient Recovery : 100µsec.
Remote Sensing : Provided for all models with 5A and above.
Note : Load Regulation to be measured at sense terminals.
* For 5V Power Supplies 0.05% +1.5mV
** For 5V Power Supplies 0.03% +15mV
Built-in Crowbar Type Over Voltage Protection for 5V Power Supply.
All power supply with Built-in Mains cord.
OPTION AT EXTRA COST

- OVP Crow Bar Type
- 3 Digit DPM for V&I
- Input 115 Volts 50Hz Single Phase
- 19” Rack Adaptable for width of PS with 430 mm.

SELECTION GUIDE

	DC OUTPUT		MODEL
	VOLTAGE	CURRENT	
5V	4.5 to 5.5V	2A	FS0502
	4.5 to 5.5V	5A	FS0505
	4.5 to 5.5V	10A	FS0510
12V	10.8 to 13.2V	2A	FS1202
	10.8 to 13.2V	5A	FS1205
	10.8 to 13.2V	10A	FS1210
±15V Dual Tracking	±13.5 to ±16.5V	1A	FSD1501
	±13.5 to ±16.5V	2A	FSD1502
	±13.5 to ±16.5V	5A	FSD1505
24V	21.6 to 26.4V	2A	FS2402
	21.6 to 26.4V	5A	FS2405
	21.6 to 26.4V	10A	FS2410
	21.6 to 26.4V	20A	FS2420
48V	43.2 to 52.8V	2A	FS4802
	43.2 to 52.8V	5A	FS4805
	43.2 to 52.8V	10A	FS4810
	43.2 to 52.8V	20A	FS4820

For 10% variation in input voltage with constant rated load. All dimensions are behind the panel and excluding legs.
Load change from no load to full load. Change in output voltage from zero volt (Short circuit) to max. output voltage.

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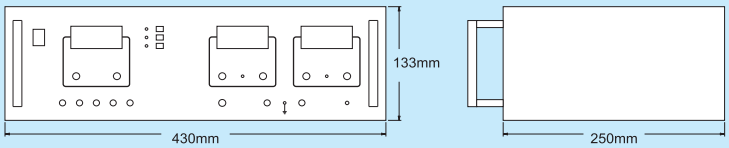
www.jomaev.com salesjoma3@gmail.com / info@jomaev.com

Regulated DC Power Supply

Model VSM 32/15/05



FEATURES

- Low cost general purpose laboratory bench unit.
- Fully protected against overload and short circuit.
- Three independent outputs electrically isolated from each other.
- 5V/5A with over voltage crowbar protection for digital ICs.
- Electrically floating outputs up to 500V DC w.r.t. ground.
- Compact modular construction.
- Precise regulation, low ripple and noise for both constant voltage and constant current operation.
- Quality components and conservating ratings for high reliability and long life.

OUTPUT	32V/2A	±15V/0.5A	5V/5A
Input Voltage	230V AC, ±10%, 50Hz, 1 Phase		
Output Voltage	0 to 32V	12V to 15V	4.50 to 5.50V
Output Current	0 to 2A	0.5A	5A
Line Regulation CV *	±0.01% ±2mV	±0.1%	±0.1%
Load Regulation CV	±0.01% ±2mV	±0.1%	±0.1%
Line Regulation CC *	±0.1% ±250µA	N.A.	N.A.
Load Regulation CC	±0.1% ±250µA	N.A.	N.A.
Output Ripple CV	1mV rms	1mV rms	1mV rms
Output Ripple CC	0.04% rms	N.A.	N.A.
Remote Sensing	N.A.	N.A.	N.A.
Operating Temp.	0 to 50°C	0 to 50°C	0 to 50°C
Protection	OL/SC (CC type)	OL/SC (fold back type)	OL/SC (fold back type)
O/P OVP	N.A.	N.A.	Crowbar type
Indication (LED)	CV/CC	CV	CV
3 Digit DPM	V & I	Common 3 digit voltmeter with sel. switch	
Meter Accuracy	±3 counts	±3 counts	±3 counts
Input on/off	Rocker switch	Rocker switch	Rocker switch
Single Turn Pots	Coarse & fine to set V & I	V set	V set
Dimensions apprx. W × H × D (mm)	430 × 133 × 250		
Weight apprx.	12.0kg.		

* For 10% variation in input voltage with constant rated load. ** *All dimensions are behind the panel and excluding legs*

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DC Electronic Active Load

**FOR REFERANCE ONLY

Technical Specifications

The DC Electronic Active Load by Joma is a high-performance MOSFET based electronic load designed to meet diverse testing requirements for power supply units, batteries, and other DC power sources. Engineered with precision, this active load offers excellent stability, accuracy, and a wide range of operating modes to ensure reliable performance in both laboratory and industrial applications.

Equipped with advanced features such as constant current (CC), constant voltage (CV)modes, the Joma DC Active Load provides flexibility for various testing scenarios. Its intuitive interface and comprehensive protection mechanisms ensure user safety and seamless operation.

Ideal for R&D laboratories, production testing, and quality assurance environments, the Joma DC Active Load delivers robust performance, ensuring precise control and accurate measurement capabilities.

Special Features

- Modes of operation: CV, CC
- Hardware circuit for CV function, faster transient response and higher CV accuracy
- Over current, over voltage, over temperature and reverse voltage protections.
- 3 Digit DPM provided for voltage & current
- Multi-turn Potentiometer provided for control on front panel
- Voltage & Current presetting
- Force cooling system, ensure high stability during long-time operation under full load

Optional Features At Extra Cost

- 4 digit DPM for voltage & current
- Battery voltage monitor DPM
- Timer facility
- AH meter
- Watt meter
- Analog programming of 0-10V DC for both CV & CC, selectable by 24V DC signal
- Standard USB Interface, support LabView.
- RS-485 Interface, support LabView
- Ethernet Interface
- 19” rack mounting

MODEL	AS PER SELECTION GUIDE
Input Voltage	AS PER SELECTION GUIDE
Input Current	AS PER SELECTION GUIDE
Input Power	AS PER SELECTION GUIDE
CV Mode	Accuracy: ≤±0.1%
CC Mode	Accuracy: ≤±0.1%
CV / CC Control	10 turn pot on front panel
Metering	3 digit DPM Accuracy : ±3 counts
Accessories	user’s manual, mains cord & RJ-45 to RJ-45 cable(optional), USB to USB cable (optional)
Power Supply	230V AC ±10%, 60Hz
Indications	CV, CC, Over voltage, over temp.
Dimentions (W X H X D)	AS PER SELECTION GUIDE

DC Electronic Active Load

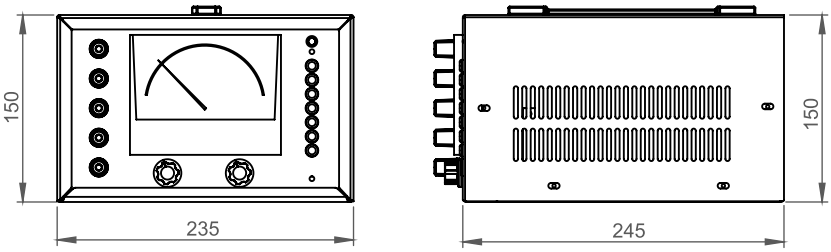
SELECTION GUIDE 0 - 320W				
OUTPUT	VOLTAGE	CURRENT	DIMENSIONS W x H x D (mm)	MODEL
16V	1-16V	0-20A	210 x 133 x 250	**JL16V/20A**
32V	1-32V	0-10A	210 x 133 x 250	**JL32V/10A**
64V	1-64V	0-5A	210 x 133 x 250	**JL64V/5A**

SELECTION GUIDE 0 - 1KW				
OUTPUT	VOLTAGE	CURRENT	DIMENSIONS W x H x D (mm)	MODEL
16V	1-16V	0-60A	430 x 133 x 250	**JL16V/60A**
32V	1-32V	0-30A	430 x 133 x 250	**JL32V/30A**
64V	1-64V	0-15A	430 x 133 x 250	**JL64V/15A**
128V	1-128V	0-8A	430 x 133 x 250	**JL128V/8A**

SELECTION GUIDE 0 - 2KW				
OUTPUT	VOLTAGE	CURRENT	DIMENSIONS W x H x D (mm)	MODEL
16V	1-16V	0-130A	430 x 133 x 410	**JL16V/130A**
32V	1-32V	0-65A	430 x 133 x 410	**JL32V/65A**
64V	1-64V	0-33A	430 x 133 x 410	**JL64V/33A**
128V	1-128V	0-16A	430 x 133 x 410	**JL128V/16A**

SELECTION GUIDE 0 - 4KW				
OUTPUT	VOLTAGE	CURRENT	DIMENSIONS W x H x D (mm)	MODEL
16V	1-16V	0-250A	430 x 133 x 650	**JL16V/250A**
32V	1-32V	0-125A	430 x 133 x 650	**JL32V/125A**
64V	1-64V	0-65A	430 x 133 x 650	**JL64V/65A**
128V	1-128V	0-33A	430 x 133 x 650	**JL128V/33A**

Audio Power Meter PM150



FEATURES

- Power Measurement upto 150 Watts
- Frequency Range 30Hz to 20KHz
- Power Indication in Watts and dB
- Choice of 12 Standard Load impedances
- Thermal Shut Down for Overheat Protection

Application

- **Sound Reinforcement:** Ensuring speakers and amplifiers are not overloaded, leading to better sound quality and avoiding equipment damage.
- **Broadcasting:** Monitoring audio levels to maintain consistent broadcast quality and comply with regulatory standards.
- **Audio Engineering:** Assisting in mixing and mastering processes by providing precise measurements of audio power levels.

Description

- Audio Power Meter Model PM150 measures the power delivered to a load by a circuit such as a power amplifier.
- It provides a choice of twelve standard terminating loads.
- The output power is measured in both watts and decibels.
- The frequency range of operation is 30Hz to 20KHz. Output power upto 150Watts can be measured with load impedance of 4, 8 and 16 ohms & upto 15W from 50 ohms to 10K ohms.
- A thermal shutdown is provided to protect the meter as well as the power source in case of overheat.

MODEL	PM150
Supply Voltage	6 V DC, 1.5V PENCIL CELLS X 4, Mains optional
Supply Current	1mAmp
Power Range	5mW, 50mW, 0.5W, 5W, 15W, 50W and 150W full scale 50W & 150W full scale range only for 4,8 & 16 ohms impedances
Type Of Measurement	Unbalanced
Impedance Range	Twelve position switch selects impedances viz. 4,8,16,50,75,125,150,600,1K,2K,5K and 10K in ohms.
Impedance Accuracy	±3% at 1KHz ±5% from 30Hz to 20KHz
Power Accuracy	For Input 1/2 FSD to FSD: ±6% of reading when measured at 1KHz at normal ambient temp. (15 to 35 °C). For Input 1/10 FSD to 1/2 FSD: ±6% of reading, ±3% of FSD when measured at 1KHz at ambient temp.(15 to 35 °C)
Frequency Charactristics	30Hz to 20KHz, ±1dB, w.r.t.1KHz,
Calibration Of Meter	In Watt / mW & dB
Operating Temperature	0 - 40° C
Dimensions approx.** W × H× D	235mm × 150 mm × 245 mm
Weight approx. (Kg)**	5.4 kg
Accessory	Banana to alligator clip 1 pair

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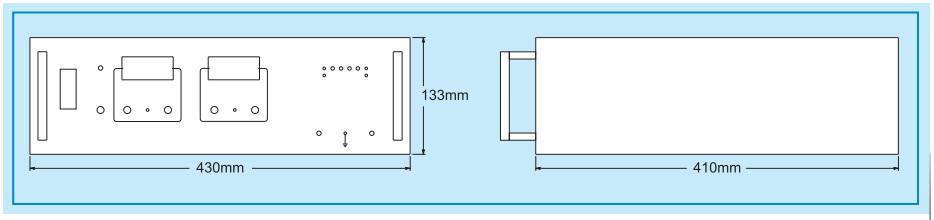
Bi-directional DC Power Supplies



- Phase Controlled Pre- Regulation Plus Linear Post- Regulation
- Two Digital Meters - 3 Digit DPMs
- Constant Voltage / Constant Current Operation
- 19" Rack Adaptable
- Remote Sensing Facility
- High Stability and Close Regulation ±0.01%
- Bidirectional Function

Special feature at Extra Cost

a) Presetting Facility
b) Over Voltage Protection
c) 19" Rack Mounting
d) Analog programming & monitoring for Voltage & Current.
e) Digital meters - 4 digit DPMs
f) Optional interface: RS232 / RS485 / USB

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% ±10mA for ±10% change in line voltage.
Load : ±0.01% ±10mA for change in output voltage from 0 volts to maximum output voltage.
Ripple AND Noise : 0.04% 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%.

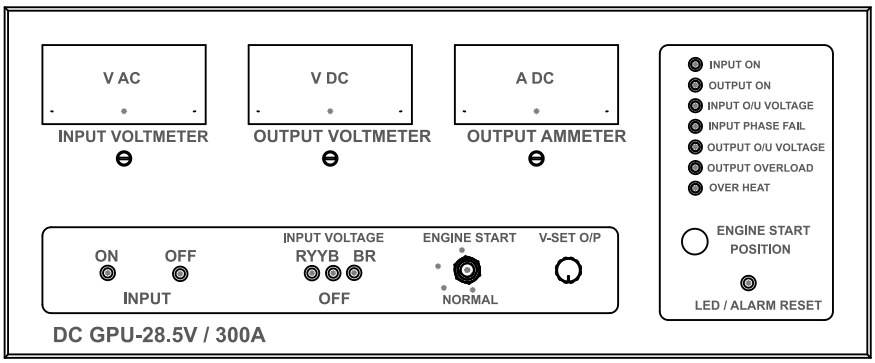
Stability : Total drift within 8 hours, after 30 minutes warm-up under constant line, load and temperature.
< ±0.2% ±10mV in CV mode.
< ±0.5% ±10mA in current mode.
Operating Temperature :
0 to 50°C.
Temp. Coefficient : ±0.05% ±5mV per OC after initial warm-up of 30 minutes, in voltage mode.
Line Voltage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

NOTE:
Discharging current continuously adjustable from 10% to 100% at any voltage >1V (In CC mode)

SELECTION GUIDE

	PV	PI	DIMENSIONS	MODEL	WEIGHT
32V	0-32V	0-02A	430 x 133 x 250	VS3202B	16.8
	0-32V	0-05A	430 x 133 x 450	VS3205B	23.4
32V	0-32V	0-10A	430 x 133 x 450	VS3210B	23.4
	0-32V	0-30A	430 x 133 x 750	VS3230B	44.5
64V	0-64V	0-05A	430 x 133 x 450	VS6405B	23.4
	0-64V	0-10A	430 x 133 x 450	VS6410B	23.4
32V	0-32V	0-60A	430 x 222 x 750	VS3260B	70.0
64V	0-64V	0-30A	430 x 222 x 750	VS6430B	70.0

DC GPU - 28.5V / 300A



SPECIFICATION:

1) Input Voltage : 415V ± 10% 3 Phase 50Hz AC supply

2) Output : 28.5 V DC at 300A & 26V DC at 2000A

3) Voltage Variation : ±1V (from No load to full load)

4) Ripple Voltage : < 0.2 V rms

5) Voltage adjustment : 26 V to 30 V

6) Output Current : 600A (continuous)

7) Inrush current: inrush of 2000A for 500mSec

8) Current limiting setting: Adjustable 100A to 2000A

9) Output overload:
1500A for at least 27V for at least 30 sec
2000A for at least 27V for at least 5 sec

7) ambient temp.: operating : 0 to 50°C
storage : -10°C to 70°C

7) Humidity: 10% to 100% with condensation

7) Audible noise level: < 68dB @ 2 meters

7) Parameters to display: digital - output voltage, output ammeter, elapsed time

7) Operating controls: main ON / OFF MCCB
load ON / OFF push button

7) system indicators: a. Mains R, Y, B, - LED
b. load - ON LED

8). Protection indicators:
a). Output under / over voltage
b). Output overload / short circuit
c). Input over / under voltage
d). Input phase fail / reversal
e). Over temperature
f). Audible alarm

8). Protections:
a). Output under / over voltage
b). Output overload / short circuit
c). Input over / under voltage
d). Input phase fail / reversal
e). Over temperature
f). Output phase reversal

11) Out put cable : 95 Sq.mm 2x1 core 15 mtrs length with NATO connector.

12). Input Cable : 10 Sq.mm 5 core cable length 50 mtrs with male and female industrial sockets.

13). Weight : Approx 400 Kgs

Digital Psophometer JPM90

Description

A Joma make Digital Psophometer is a precision instrument designed to measure noise levels in telecommunication circuits, particularly within the audio frequency range. This portable unit is equipped with a Psophometric filter, adhering to CCITT recommendations, for accurate weighted and unweighted noise measurements. It also includes additional features such as a 'Recorder Out' for response curve plotting and a built-in stable calibration signal, enhancing its utility in testing and ensuring high-quality voice communication.

Application

- Telecommunication Network Testing: Measures and monitors noise in voice communication channels to ensure clear audio quality.
- Broadcasting: Assesses audio circuit noise levels in radio and TV to maintain high sound quality.
- Audio Equipment Testing: Ensures low noise levels in devices like amplifiers and microphones during production.
- Military and Aerospace Communications: Maintains communication integrity by minimizing noise interference.
- Research and Development: Supports the study and advancement of communication technologies by analyzing noise in various environments.

Features

- Compact and Portable for Field Application
- Extremely Sensitive and Accurate
- Weighted and Flat Frequency Response as per CCITT Standard
- Highly Stable Internal Calibration Signal
- Measurement of Metallic Noise, Longitudinal Noise, Level and Transmission Loss Over a Transmission Line
- Operated on Mains / Internal Battery or on External 6V DC Source
- Built-in 'Power Hum' measurement facility
- Recorder Output Available
- I/P Impedance 600, 1120 ohms or Hi Selectable
- 3½ Digit LCD Display
- Lo Battery' Indication

Technical Specifications

Frequency Range : a) Weighted Mode : 15Hz to 6KHz as specified by CCITT.
b) Unweighted Mode : 15Hz to 10KHz.

Measuring Range : a) dBm : -90dBm to 0dBm.
b) Voltage : 30µV to 1V.

Min. Measurable Value : 10µV (-98dBm).

Calibration Accuracy at 800Hz : 0 to -60dBm : ±0.5dB.
-60 to -90dBm : ±1.0dB.

Display : 3½ Digit LCD type.

Input Impedance : 600 ohms, 1120 ohms balanced, 'Hi'.

Frequency Response of Psophometric Measurements : According to CCITT weighting coefficient for Telephone circuits.

Frequency Hz	Relative Weight dB	Limit ±dB
16.6	-85.0	—
50	-63.0	2
100	-41.0	2
200	-21.0	2
300	-10.6	1
400	-6.3	1
500	-3.6	1
600	-2.0	1
700	-0.9	1
800	0.0	0
900	+0.6	1
1K	+1.0	1
1.2K	0.0	1
1.4K	-0.9	1
1.6K	-1.7	1
1.8K	-2.4	1
2.0K	-3.0	1
2.5K	-4.2	1
3K	-5.6	1
3.5K	-8.5	2
4K	-15.0	3
4.5K	-25.0	3
5K	-36.0	3
6K	-43.0	3

Recorder Facility : 100µA at 0dBm 1120 impedance.

Power : a) 230V AC ±10%, 47-53Hz.
Optional 115V AC ±10%, 57-63Hz.
b) Internal rechargeable 6V battery.
c) External battery operation.

Dimensions : 265 (W) x 105 (H) x 356 (D) mm approx.

Weight : 6 Kg. approx. with battery.

Standard Accessories : Instruction Manual - 1 No.
Dual Banana to Dual Banana Cable - 1 No.
Dual Banana to BNC(M) Cable - 1 No.
Dual Banana to Alligator Clip - 1 No.
Ext. Battery Jack Cable - 1 No.

FCBC Series

Heavy Duty 50Hz Charger For Heavy Industrial Environments

- Input Voltage 1PH or 3PH
- Automatic Float to Boost Conversion
- Auto / Manual Switch
- Digital Volt & Current Meter for Output
- True CV-CC Charging
- Reverse Polarity Protection
- Product Range: 10w to 50kw

FLOAT CUM BOOST CHARGER SERIES		
	DC OUTPUT	MODEL
12V	12V/5A	FCBC12V/5A
	12V/10A	FCBC12V/10A
	12V/20A	FCBC12V/20A
	12V/30A	FCBC12V/30A
	12V/60A	FCBC12V/60A
	12V/100A	FCBC12V/100A
24V	24V/5A	FCBC24V/5A
	24V/10A	FCBC24V/10A
	24V/20A	FCBC24V/20A
	24V/30A	FCBC24V/30A
	24V/60A	FCBC24V/60A
	24V/100A	FCBC24V/100A
48V	48V/5A	FCBC48V/5A
	48V/10A	FCBC48V/10A
	48V/20A	FCBC48V/20A
	48V/30A	FCBC48V/30A
	48V/60A	FCBC48V/60A
	48V/100A	FCBC48V/100A
110V	110V/30A	FCBC110V/30A

SPECIFICATIONS	Float Cum Boost Charger
AC Input Voltage	230 VAC 10% 50Hz
DC Output / Current	12V / 24V / 5A - 100A 48V / 5A - 100A 110V / 30A
Recommended Battery Size	75Ah to 520Ah
Recommended Battery Type	Lead Acid, VRLA and Li Ion Batteries
Charger Efficiency	Approx 82%
Operating Temperature	0°C to 55°C (-32°F to 158°F)
Storage Temperature	-25°C to 70°C
Temperature Compensation	Internal
Application	Fork Lifts, Pallet Trucks, Stackers

Regulation :

Line Regulation : <1%

Load Regulation :<1%

Ripple(Vrms) :<1%

Digital Metering :

a. 3 Digit Digital Voltmeter
b. 3 Digit Digital Ammeter

Features : CV mode

Efficiency : >82%

Indications :

a. Float
c. Boost
e. CV mode
b. Phase Fail (for 3Ø units)
d. Battery reverse
f. Output under voltage
g. Output Over voltage

JFG3 3MHz Function Generator

Features

- Wide Frequency Range
- Sine, Triangle, Square, Ramp, Pulse, TTL (Sync) & DC Outputs
- Low Distortion High Resolution on Low Frequency
- Output Attenuation upto 80dB
- Variable DC Offset Control
- Four Digit digital Display with Frequency Indication in Hz, KHz, MHz / Amplitude display

Application

JOMA's JFG3 Function Generator series is the answer to most engineer's test requirements. Economical with plenty of advantages makes this series the best in the market today. These Signal generators can be used as a signal source to check amplifiers, filters, attenuators and also to generate in circuit based signals. This series of signal generators are designed to provide the user with all the specifications of a good quality Function Generator while maintaining easy operability. The wide Frequency range from 0.01Hz up to 3MHz through coarse and fine controls makes quick adjustment possible.

Technical Specifications

FUNCTION GENERATOR	JFG3
Frequency Range	0.01Hz to 3MHz in 8 decade ranges.
Frequency Indication	±1% ±1 digit.
Output Impedance	50 ohms
Frequency Indication Accuracy	±1% +1 digit
Output Waveforms	Sinusoidal, Triangle, Square, Ramp, Pulse, TTL (Sync) & DC Outputs.
Sine Distortion	<1% (typical).
Square Wave Rise / Fall Time	<75nsec.
Frequency Stability	<0.5% of the set frequency (after ½ Hour warm up).
Duty Cycle	10% to 90% variable.
Maximum Output Voltage a) Into 50 ohms b) Open Circuit	 10V p-p output. 20V p-p output.
Amplitude Indication	3 digit seven segment display (Vp-p) ±5%.
Amplitude Flatness	±0.5dB upto 100KHz range / ±1.0dB for 1MHz range.
Attenuator	Two step attenuators of 20dB & 40dB. Fine attenuation of 20dB through vernier control. (Total 80 dB attenuation).
Attenuator Accuracy	±0.5dB per 20dB at 1KHz.
DC Offset	±10V ±5% (DC + AC peak) in open circuit ±5V ±5% (DC + AC peak) in 50 ohms.
POWER REQUIREMENT	
AC Mains Power	230V AC ±10%, 50Hz., 15VA. (Approx.)
GENERAL	
Dimensions (mm)	270 (W) x 88 (H) x 310 (D)
Weight (approx.)	3 Kg.
Standard Accessories	Instruction Manual 1 No. BNC(M) to Alligator Clip 1 No. Mains Cord 1 No.
Optional Accessory	50 ohms Termination.

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High Power Series Power Supplies

High Power Series range regulated and variable DC power supplies are solid state units utilizing thyristor technology in a single and three phase full-bridge rectifier topology that offer constant voltage control, constant current control, automatic crossover, series regulation, DC filter, digital metering and various operational and protective monitoring features.
We manufacture DC regulated variable power supplies with power rating from 3kW to 200kW. These are designed to meet Industrial applications. The Power Supplies have high efficiency, precise regulation and low output ripple and noise. KWDC Series Power supplies are available in ratings from 3KW to 200kW with current ratings up to 2000A.

Application

High Power Series of JOMA DC power supplies and systems are rugged high-power DC Sources being used in several industrial, research and military applications including electrochemical, steel, welding, plating, circuit breaker testing, bus-bar testing, desalinization, aircraft engine starting etc. Each unit is based on standard designs and precision engineered to meet your specific application. These are ideal for use in chemical, automotive and Industrial application such as Electro-coating, Anodizing, Plating, Cleaning etc and also as high power DC testing source in wide variety of Industries and Test Houses.

Available Models

DCPS	50A	100A	300A	500A	1000A	1500A	2000A
0.8-32kW	1.6-16V/50A	1.6-16V/100A	1.6-16V/300A	1.6-16V/500A	1.6-16V/1000A	1.6-16V/1500A	1.6-16/2000A
1.6-32kW	3.2-32V/50A	3.2-32V/100A	3.2-32V/300A	3.2-32V/500A	3.2-32V/1000A	3.2-32V/1500A	3.2-32V/1000A
3.75-150kW	7.5-75V/50A	7.5-75V/100A	7.5-75V/300A	7.5-75V/500A	7.5-75V/1000A	7.5-75V/1500A	7.5-75V/2000A
7.5-150kW	15-150V/50A	15-150V/100A	15-150V/300A	15-150V/500A	15-150V/1000A	--	--
10-200kW	20-200V/50A	20-200V/100A	20-200V/300A	20-200V/500A	20-200V/1000A	--	--

Custom Designed DCPS

Please contact us for technical advice. We will assist you in specifying a proper DC Power Source for your application. KWDC Series DC Power Sources are available with Remote Digital Programming and Monitoring features with RS232, RS485 or USB port.

High Power Series Power Supplies

Technical Specifications Note 5

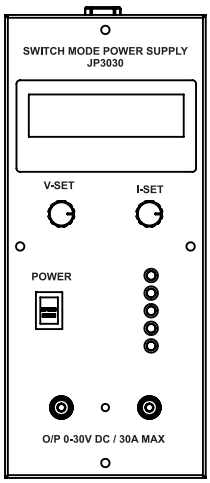
Power Line Input	Phase	3 Phase - 4 Wire	3 Phase - 3 Wire	1 Phase - 2 Wire		
	Voltage	415VAC 3Ø or 230VAC 1Ø up to power level of 5kW				
	Voltage Range	±10% (Note 1)				
	Frequency	50Hz, ±3Hz or 60Hz, ±3Hz				
DC Output	Voltage	4 - 400V DC (Refer the chart)				
	Settable Limit	10% - 100%				
	Rated Current	50A - 2000A (Refer the chart)				
	Line Regulation	≤1%				
	Load Regulation	≤1%				
	Overload Capacity	110% Continuous 150% 1 minute				
	Ripple(Vrms)	≤1%				
Digital Metering		a. 3 Digit Digital Voltmeter (Note 2) b. 3 Digit Digital Ammeter				
Features		Cable Drop Compensation				
Protections		a. Input Over/UnderVoltage b. Phase Fail (for 3Ø units) c. DC Over Voltage d. Power Device Guard e. Overheat f. Soft-start Feature g. Output Overload				
Enclosure		IP 20 (Note 3)				
Enclosure Colour		Customised				
Indications		a. Line PowerON b. PhaseFail (for 3Ø input) c. DC Output ON d. Line Over/ Under Voltage e. Overheat f. DC Over/ Under Voltage g. Output Overload				
Cooling System		Air Forced				
Environment		0 to 45ºC (Note 4)				
Humidity		0-95% (Non-Condensing) Continuous Working				
Dielectric Voltage		1500V AC 10mA / 1 Min				
Noise		≤65dB				
Optional Features		a. **Droop Characteristics** b. Output Blocking Diode c. Input MCCB as per Required KIAC d. Auto Phase Correction e. Isolated Output Controlling Signals f. Front Access to Electrical Circuitry g. DC Distribution box as per Customer Need				
Digital Programming Option		1. Output Voltage & Current programming through RS 232/USB. 2. PSU Performance Monitoring via RS485/USB.				
Dimensions		up to 10kW	11-20kW	21-40kW	41-75kW	Above 75kW
	Height (mm)	940	1225	1325	1650	As per customer request
	Width (mm)	450	500	600	700	
	Depth (mm)	650	800	800	1000	

Notes: (1) Optional upto -30% to +10% on request.
(2) Optional Input Line Metering.
(3) Optional IP-21, IP-30, IP31, IP-40, IP41, IP-42 or IP-54.
(4) Optional interface: RS232 / RS485 / USB.
(5) Optional digital meters - 4 digit DPMs
(6) All specifications given here are subject. to change to meet the newly imposed standards and technology.

Switch Mode Power Supply
JP3030

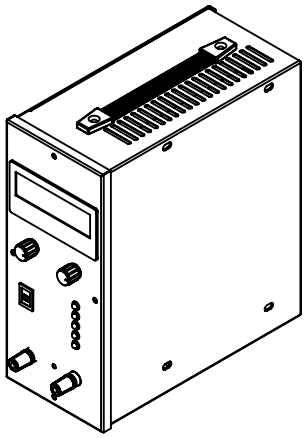
Standard Feature

- SMPS Based Design
- Two Digital Meters - 3 Digit DPMs
- Constant Voltage / Constant Current Operation
- Front panel potentiometer to set V&I
- 3 Digit seven segment display for V&I
- High Efficiency, Long Life & High Reliability
- Lighter in weight
- Over voltage protection
- Over tempreature protection



Additional Features (with extra cost)

- Analog programming 0-5V /0-10V for output voltage & current
- Interface : RS485, USB, Ethernet
- Readback or monitoring 0-5V / 0-10V for output Voltage & Current
- 4 digit display
- Over/under voltage protection
- PFC as per customer requirement for remote annunciation



MODEL	JP3030
Input Voltage	180VAC to 270VAC, 50Hz,1Phase
Output Voltage	0 to 30V
Output Current	0 to 30A
Line Regulation CV *	≤1% ±2mV
Line Regulation CC !	≤1% ±10mA
Load Regulation CV *	≤1% ±2mV
Load Regulation CC !!	≤1% ±10mA
Output Ripple	<10mV rms
Efficiency	>85%
Cooling	Forced cooling
Operating Temp.	0 to 50°C
Protection	over load / short circuit
Indication (LED)	CV/CC
3 Digit DPM	V & I
Meter Accuracy	±3 counts
Input on/off	Rocker Switch
Single Turn Pots Coarse & Fine	V set & I set

Master-Slave Series
6.4kW - 10kW DC Power Supplies

DIGITAL LAB SELECTION GUIDE

SINGLE OUTPUT 6.4kW				
OUTPUT	DC OUTPUT		DIMENSIONS	MODEL
	VOLTAGE	CURRENT	W x H x D (mm)	
16V	0-16V	0-300A	530 x 1200 x 750	**VS16300**
32V	0-32V	0-200A	530 x 1200 x 750	**VS32200**
64V	0-64V	0-100A	530 x 1200 x 750	**VS64100**
80V	0-80V	0-80A	530 x 1200 x 750	**VS8080**
128V	0-128V	0-50A	530 x 1200 x 750	**VS12850**

SINGLE OUTPUT 10kW				
OUTPUT	DC OUTPUT		DIMENSIONS	MODEL
	VOLTAGE	CURRENT	W x H x D (mm)	
32V	0-32V	0-300A	530 x 1200 x 750	**VS32300**
64V	0-64V	0-150A	530 x 1200 x 750	**VS64150**
128V	0-128V	0-80A	530 x 1200 x 750	**VS12880**
300V	0-300V	0-30A	530 x 1200 x 750	**VS30030**
600V	0-600V	0-10A	530 x 1200 x 750	**VS60010**
600V	0-600V	0-20A	530 x 1200 x 750	**VS60020**
1000V	0-1000V	0-10A	530 x 1200 x 750	**VS100010**

SPECIFICATIONS

Output Voltage & Current : See Selection Guide.

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

Constant Current Mode :
Regulation :
Line : ±0.01% ±10mA for ±10% line change.
Load : ±0.01% ±10mA for change in output voltage from 0 Volts to maximum output voltage.
Ripple & Noise : 100mA rms.

Metering : 3 Digit DPM.

Meter Accuracy : ±3 counts.

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

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

Overload Protection : Automatic overload and short circuit protection.

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

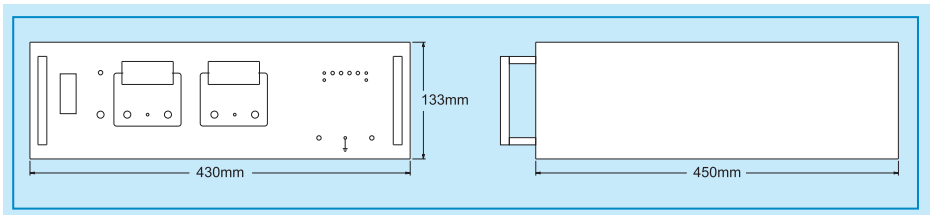
Stability : Total drift within 8 hours, after warm-up.
<±0.2% plus 5mV in constant voltage mode.
<±0.5% plus 5mA in constant current mode with constant line, load and ambient temperature conditions.

Operating Temperature : 0-50°C.

Line Voltage : 415V AC ±10% 50Hz, 3 phase. OR 230V AC ±10% 50Hz, 1 Phase

NOTE : REGULATION TO BE MEASURED AT SENSE TERMINALS.

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

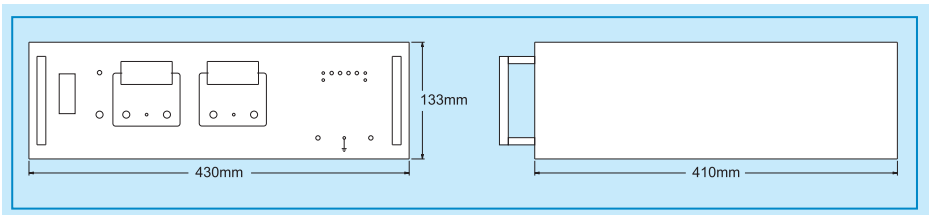
Weight : 25 kg approx.

- 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

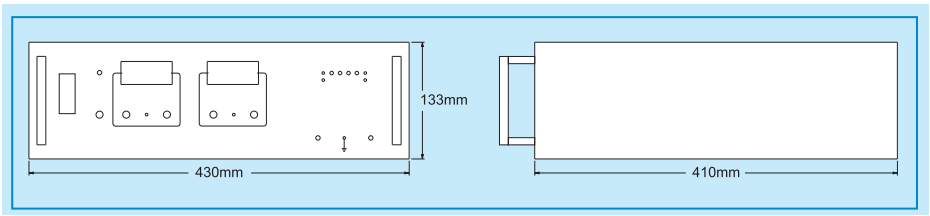
- Phase Controlled Pre- Regulation Plus Linear Post- Regulation
- One Digital Meters - 3 Digit DPMs with V/A Selector Switch
- Constant Voltage / Constant Current Operation
- 19" Rack Adaptable
- Remote Sensing
- High Stability and Close Regulation ±0.01%

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

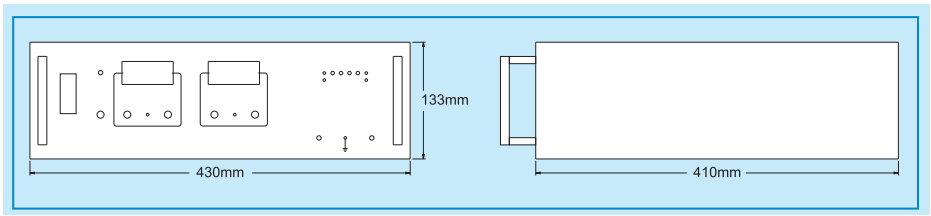
Dimensions : 430 x 133 x 450

- 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.

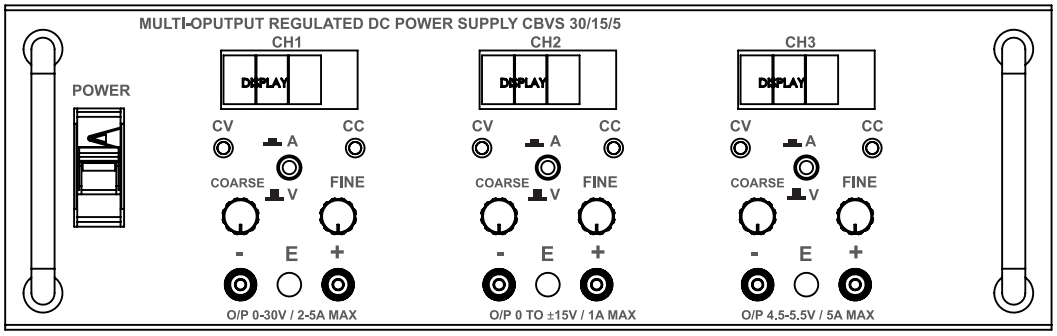
Transient Response : 100 micro sec within 10mV of set output voltage for load change from 10% to 90%.
Stability : Total drift within 8 hours, after 30 minutes warm-up under constant line, load and temperature.
< ±0.2% ±10mV in CV mode.
< ±0.5% ±10mA in current mode.
Operating Temperature :
0 to 50°C.
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.

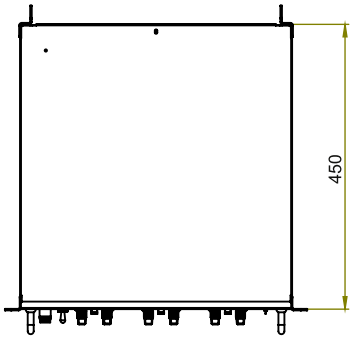
Output Voltage & Current :
Output voltage : Ch1: 0 TO 30V
Ch2: 0 TO 30V
Ch3: 0 TO 5V

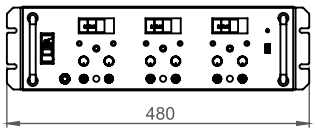
Output current : Ch1: 0 TO 3A
Ch2: 0 TO 3A
Ch3: 0 TO 3A

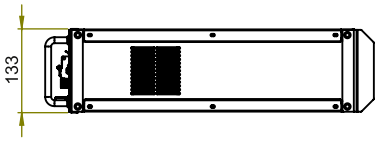
Dimensions : 430 x 133 x 450

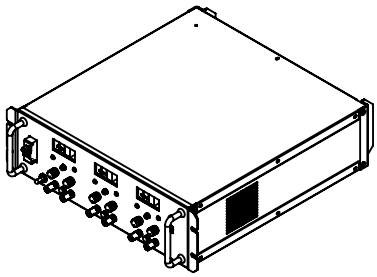
Multi-output Regulated DC Power Supply CBVS30/15/5











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

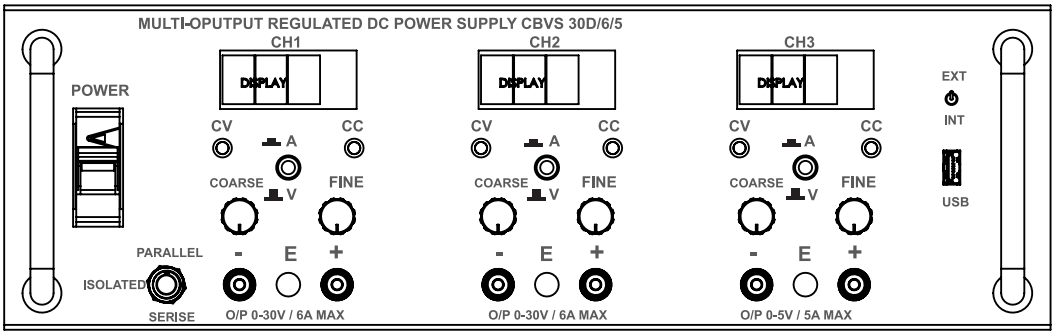
Dimensions : 430 x 133 x 450

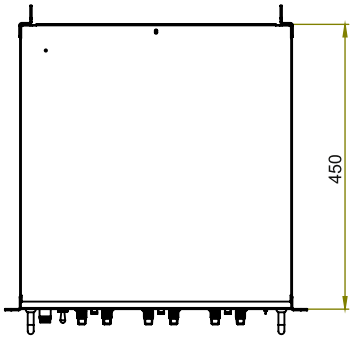
- Phase Controlled Pre- Regulation Plus Linear Post- Regulation
- One Digital Meters - 3 Digit DPMs with V/A Selector Switch
- Constant Voltage / Constant Current Operation
- Over Temperature protection

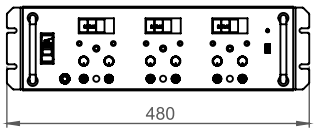
Special feature at Extra Cost

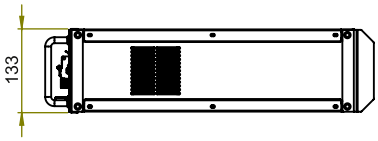
a) 19" Rack Mounting

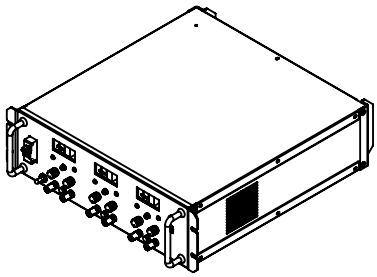
Multi-output Regulated DC Power Supply CBVS30D/6/5











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

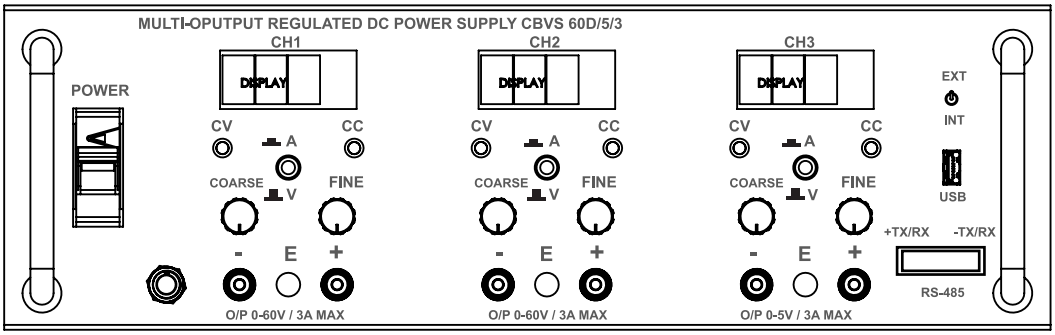
minimum Power : 180 watt

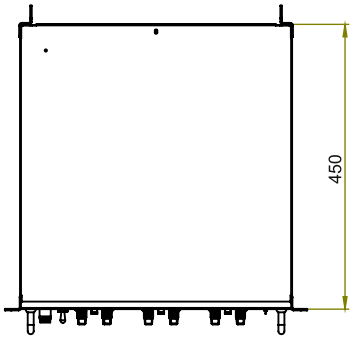
Dimensions : 430 x 133 x 450

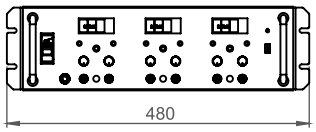
- Phase Controlled Pre- Regulation Plus Linear Post- Regulation
- One Digital Meters - 4 Digit DPMs with V/A Selector Switch
- Constant Voltage / Constant Current Operation
- USB, LAN, RS-485 Interface
- Over Temperature protection

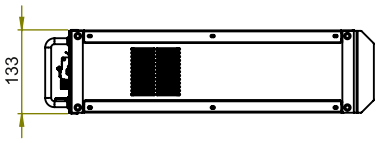
Connectivity & Software : USB, LAN, RS-485 connections to control & monitor the power supply using PC based HMI software

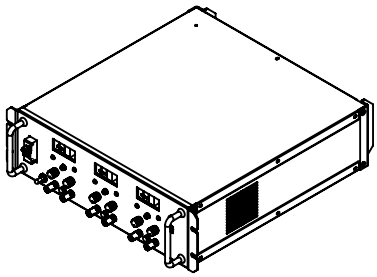
Multi-output Regulated DC Power Supply CBVS60D/5/3











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

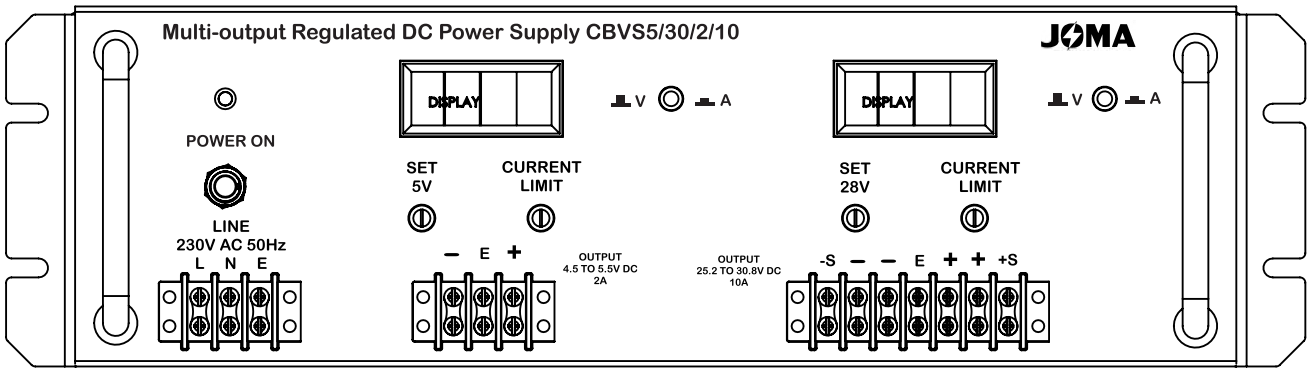
Dimensions : 430 x 133 x 450mm

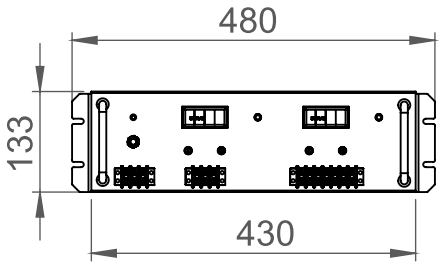
Weight: ≤25kg

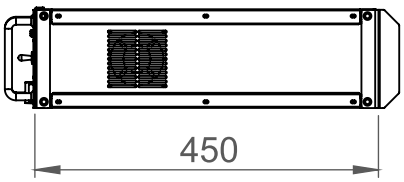
- Phase Controlled Pre- Regulation Plus Linear Post- Regulation
- One Digital Meters - 4 Digit DPMs with V/A Selector Switch
- Constant Voltage / Constant Current Operation
- USB & RS-485 Interface
- 3 independently programmable & isolated channels
- Over Temperature protection
- 10 turn potentiometer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

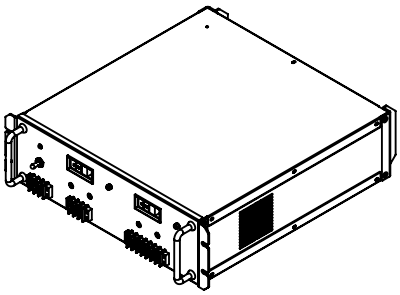
Connectivity & Software : USB connections to control & programme the power supply using PC based software & with complete control over all the channels to operate simultaneously.
via USB interface with HMI

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

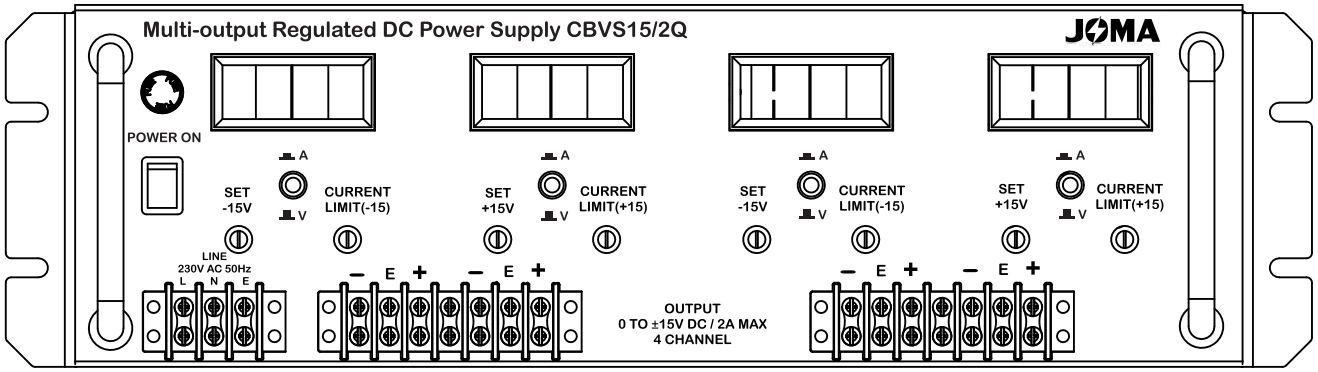
Dimensions : 430 x 133 x 450

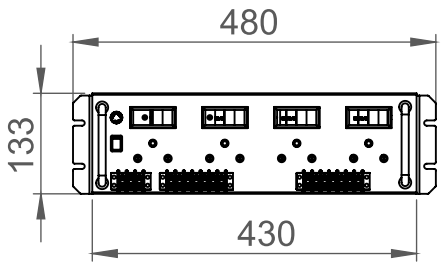
- Phase Controlled Pre- Regulation Plus Linear Post- Regulation
- One Digital Meters - 3 Digit DPMs with V/A Selector Switch
- Constant Voltage / Constant Current Operation
- 19" Rack Adaptable
- Remote Sensing
- High Stability and Close Regulation ±0.01%

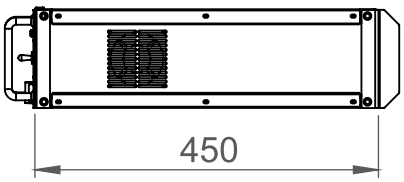
Special feature at Extra Cost

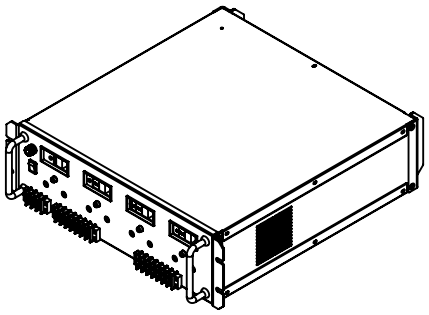
a) Presetting Facility
b) Over Voltage / Current Protection
c) 19" Rack Mounting
d) Analog programming & monitoring for Voltage & Current.

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

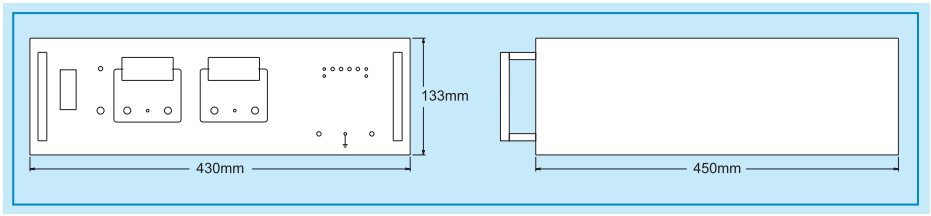
Dimensions : 430 x 133 x 450

- 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

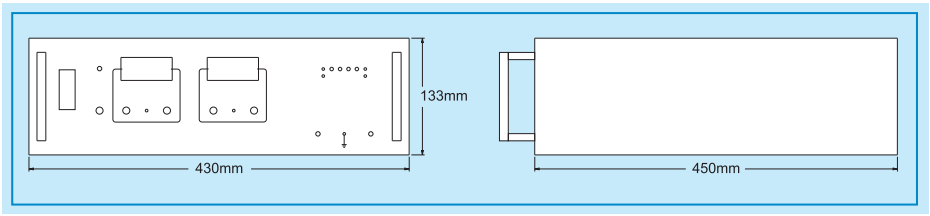
a) Presetting Facility
b) Over Voltage Protection
c) 19" Rack Mounting
d) Analog programming & monitoring for Voltage & Current.

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)

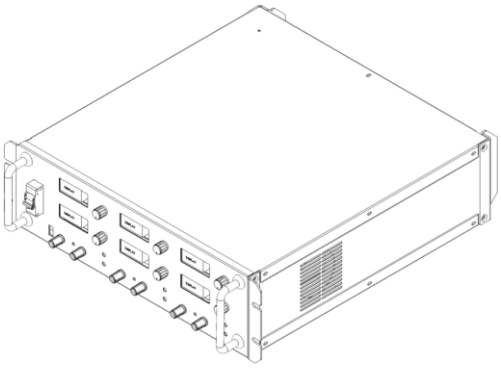
- Phase Controlled Pre- Regulation Plus Linear Post- Regulation
- One Digital Meters - 3 Digit DPMs with V/A Selector Switch
- Constant Voltage / Constant Current Operation
- Remote Sensing Facility
- High Stability and Close Regulation ±0.01%

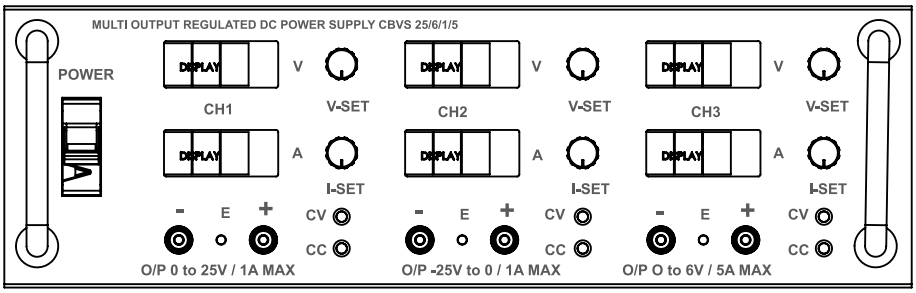
Special feature at Extra Cost

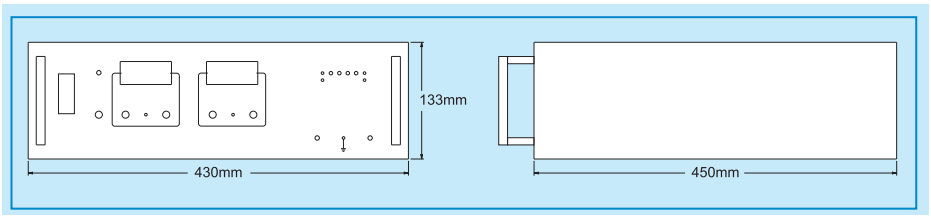
a) Presetting Facility
b) Over Voltage Protection
c) 19" Rack Mounting
d) Analog programming & monitoring for Voltage & Current.

	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.

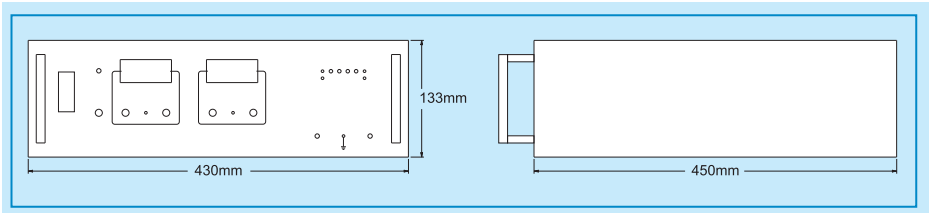
Special feature (Optional)

- 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.



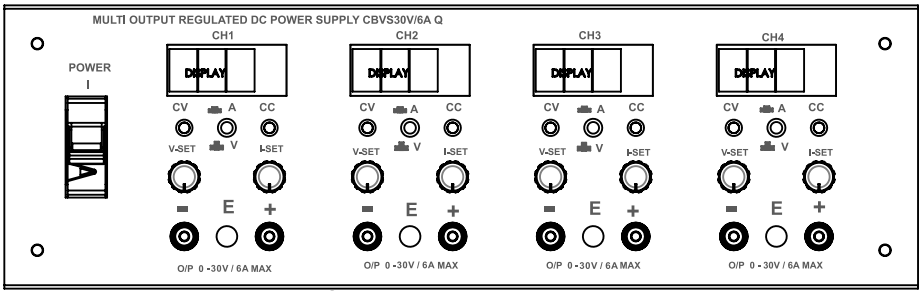
Special feature (Optional)

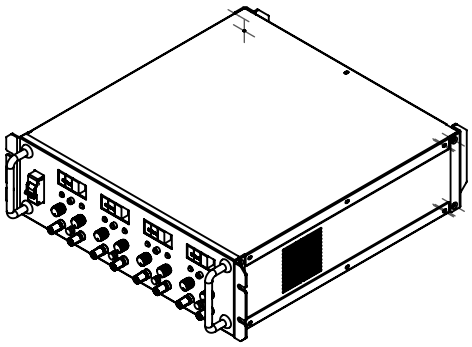
- Over voltage protection
- 19" rack mounting
- Analogue programming and monitoring for V&I

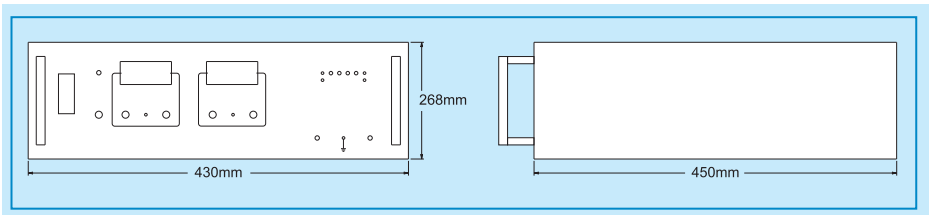
Note: During series mode CH-1 meter will read combined voltage

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





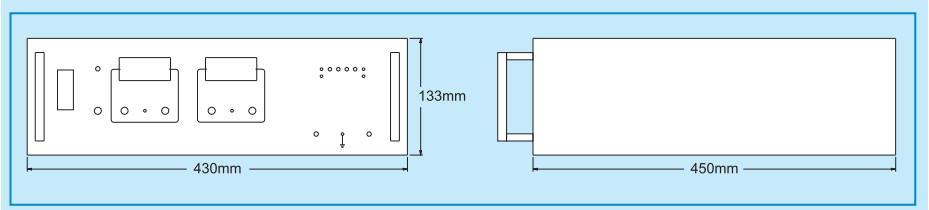


- Bench Top type power supply
- Phase controlled pre-regulation plus linear post regulation
- High stability and close regulation
- 3 Digit digital display for V&I
- V - A Switch provided
- Front panel potentiometer to set V&I
- High current density.
- Optional 4 digit DPM as per requirement.

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.



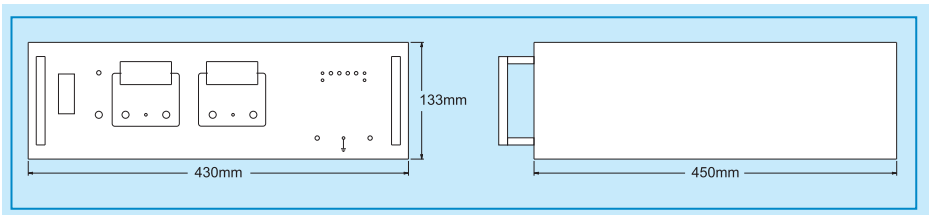
Special feature (Optional)

- 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



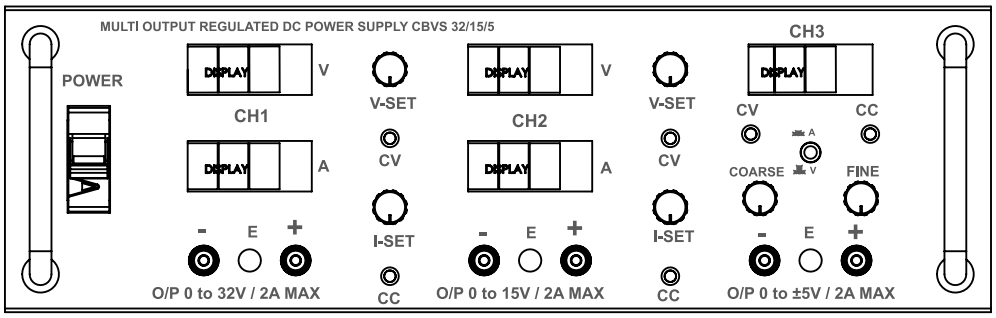
- Phase controlled pre-regulation plus linear post regulation
- High stability and close regulation
- Digital Meters - 4 Digit DPMs with V/A Selector Switch
- Remote sensing
- Front panel potentiometer to set V&I
- High current density.
- Over voltage protection
- PC interface software
- Mains cord provided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

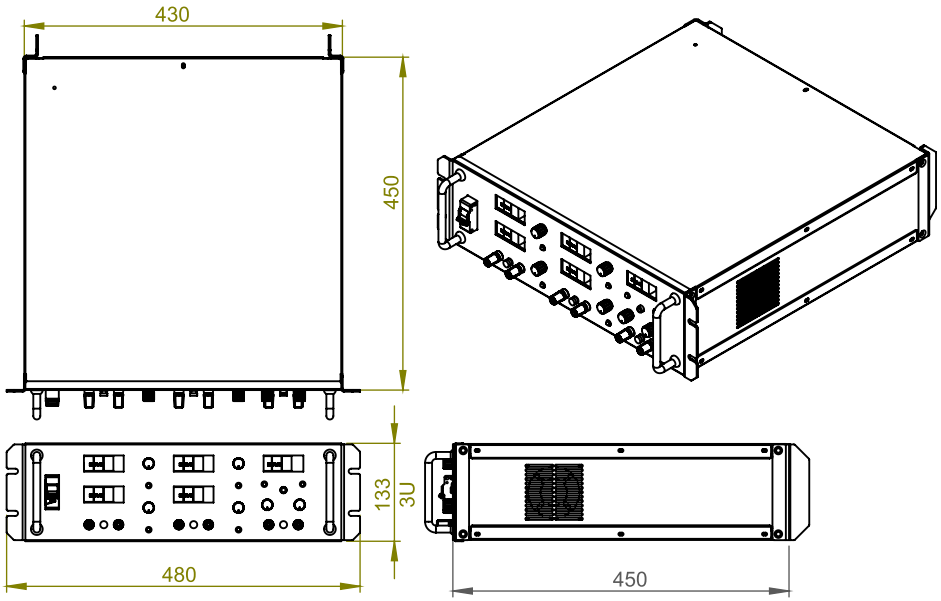
Special feature (Optional)

- 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





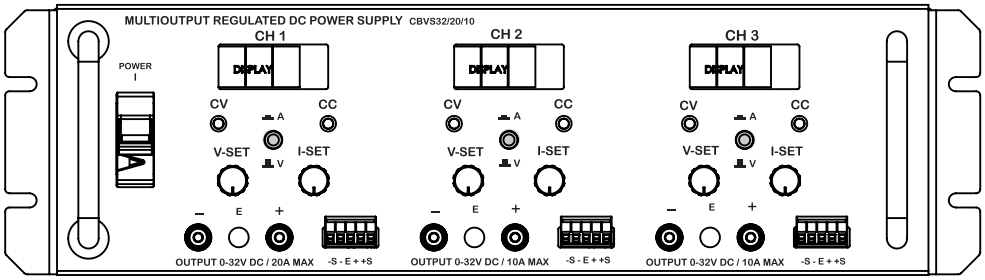
- Phase controlled pre-regulation plus linear post regulation
- High stability and close regulation
- One Digital Meters - 3 Digit DPMs with V/A Selector Switch
- 3 Digit digital display for V&I for CH1 & CH2
- Front panel potentiometer to set V&I
- High current density.

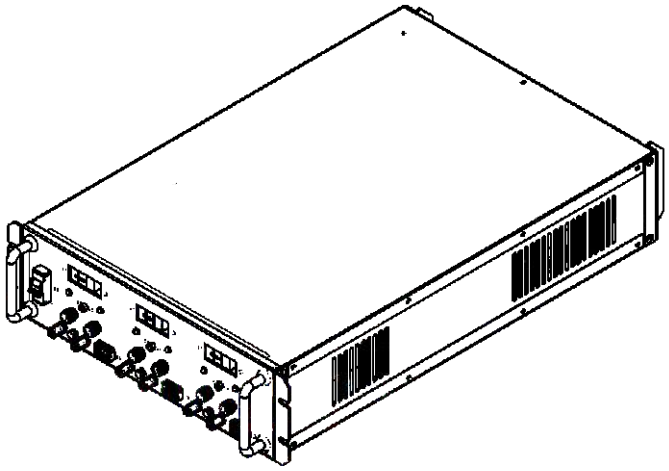
Special feature (Optional)

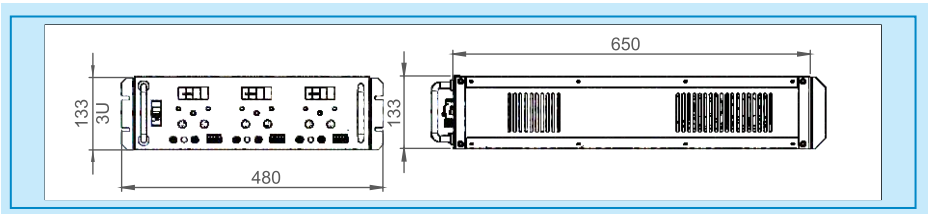
- Over voltage protection
- 19" rack mounting
- Analogue programming and monitoring for V&I

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		

Switch Mode Power Supplies
0-30V Power Supplies JP Series

JOMA Next Gen Power

Standard Feature

- SMPS Based Design
- Two Digital Meters - 3 Digit DPMs
- Constant Voltage / Constant Current Operation
- Front panel potentiometer to set V&I
- 3 Digit seven segment display for V&I
- High Efficiency, Long Life & High Reliability
- Lighter in weight
- Over voltage protection
- Over tempreature protection

Additional Features (with extra cost)

- Analog programming 0-5V /0-10V for output voltage & current
- Interface : RS485, USB, Ethernet
- Readback or monitoring 0-5V / 0-10V for output Voltage & Current
- 4 digit display
- Over/under voltage protection
- PFC as per customer requirement for remote annunciation

MODEL	JP3005	JP3010	JP3020	JP3030	JP3050	JP3060	JP3099	JP3150
Input Voltage	180VAC to 270VAC, 50Hz,1Phase							
Output Voltage	0 to 30V							
Output Current	0 to 5A	0 to 10V	0 to 20A	0 to 30A	0 to 50A	0 to 60A	0 to 100A	0 to 150A
Line Regulation CV *	≤1% ±2mV							
Line Regulation CC !	≤1% ±10mA							
Load Regulation CV *	≤1% ±2mV							
Load Regulation CC !!	≤1% ±10mA							
Output Ripple	<10mV rms							
Efficiency	>85%							
Cooling	Forced cooling							
Operating Temp.	0 to 50°C							
Protection	over load / short circuit							
Indication (LED)	CV/CC							
3 Digit DPM	V & I							
Meter Accuracy	±3 counts							
Input on/off	MCB							
Single Turn Pots Coarse & Fine	V set & I set							

Switch Mode Power Supplies
0-60V Power Supplies JP Series

JOMA Next Gen Power

Standard Feature

- SMPS Based Design
- Two Digital Meters - 3 Digit DPMs
- Constant Voltage / Constant Current Operation
- Front panel potentiometer to set V&I
- 3 Digit seven segment display for V&I
- High Efficiency, Long Life & High Reliability
- Lighter in weight
- Over voltage protection
- Over tempreature protection

Additional Features (with extra cost)

- Analog programming 0-5V /0-10V for output voltage & current
- Interface : RS485, USB, Ethernet
- Readback or monitoring 0-5V / 0-10V for output Voltage & Current
- 4 digit display
- Over/under voltage protection
- PFC as per customer requirement for remote annunciation

MODEL	JP6005	JP6010	JP6020	JP6030	JP6050	JP6100
Input Voltage	180VAC to 270VAC, 50Hz,1Phase					
Output Voltage	0 to 60V					
Output Current	0 to 5A	0 to 10V	0 to 20A	0 to 30A	0 to 50A	0 to 100A
Line Regulation CV *	≤1% ±2mV					
Line Regulation CC !	≤1% ±10mA					
Load Regulation CV *	≤1% ±2mV					
Load Regulation CC !!	≤1% ±10mA					
Output Ripple	<10mV rms					
Efficiency	>85%					
Cooling	Forced cooling					
Operating Temp.	0 to 50°C					
Protection	over load / short circuit					
Indication (LED)	CV/CC					
3 Digit DPM	V & I					
Meter Accuracy	±3 counts					
Input on/off	MCB					
Single Turn Pots Coarse & Fine	V set & I set					

Switch Mode Power Supplies
0-130V Power Supplies JP Series

Standard Feature

- SMPS Based Design
- Two Digital Meters - 3 Digit DPMs
- Constant Voltage / Constant Current Operation
- Front panel potentiometer to set V&I
- 3 Digit seven segment display for V&I
- High Efficiency, Long Life & High Reliability
- Lighter in weight
- Over voltage protection
- Over tempreature protection

Additional Features (with extra cost)

- Analog programming 0-5V /0-10V for output voltage & current
- Interface : RS485, USB, Ethernet
- Readback or monitoring 0-5V / 0-10V for output Voltage & Current
- 4 digit display
- Over/under voltage protection
- PFC as per customer requirement for remote annunciation

MODEL	JP1305	JP1310	JP1315	JP1320	JP1350
Input Voltage	180VAC to 270VAC, 50Hz,1Phase				
Output Voltage	0 to 130V				
Output Current	0 to 5A	0 to 10V	0 to 15A	0 to 20A	0 to 50A
Line Regulation CV *	≤1% ±2mV				
Line Regulation CC !	≤1% ±10mA				
Load Regulation CV *	≤1% ±2mV				
Load Regulation CC !!	≤1% ±10mA				
Output Ripple	<10mV rms				
Efficiency	>85%				
Cooling	Forced cooling				
Operating Temp.	0 to 50°C				
Protection	over load / short circuit				
Indication (LED)	CV/CC				
3 Digit DPM	V & I				
Meter Accuracy	±3 counts				
Input on/off	MCB				
Single Turn Pots Coarse & Fine	V set & I set				

Switch Mode Power Supplies
0-200V Power Supplies JP Series

Standard Feature

- SMPS Based Design
- Two Digital Meters - 3 Digit DPMs
- Constant Voltage / Constant Current Operation
- Front panel potentiometer to set V&I
- 3 Digit seven segment display for V&I
- High Efficiency, Long Life & High Reliability
- Lighter in weight
- Over voltage protection
- Over tempreature protection

Additional Features (with extra cost)

- Analog programming 0-5V /0-10V for output voltage & current
- Interface : RS485, USB, Ethernet
- Readback or monitoring 0-5V / 0-10V for output Voltage & Current
- 4 digit display
- Over/under voltage protection
- PFC as per customer requirement for remote annunciation

MODEL	JP2005	JP20010	JP20015	JP20020	JP20030
Input Voltage	180VAC to 270VAC, 50Hz,1Phase				
Output Voltage	0 to 200V				
Output Current	0 to 5A	0 to 10V	0 to 15A	0 to 20A	0 to 30A
Line Regulation CV *	≤1% ±2mV				
Line Regulation CC !	≤1% ±10mA				
Load Regulation CV *	≤1% ±2mV				
Load Regulation CC !!	≤1% ±10mA				
Output Ripple	<10mV rms				
Efficiency	>85%				
Cooling	Forced cooling				
Operating Temp.	0 to 50°C				
Protection	over load / short circuit				
Indication (LED)	CV/CL				
3 Digit DPM	V & I				
Meter Accuracy	±3 counts				
Input on/off	MCB				
Single Turn Pots Coarse & Fine	V set & I set				

Static Frequency Converter Systems

With In-built Isolation Transformer

Technical Specifications (4KVA to 7.5KVA, 1Ø - 1Ø)

Model no.	JFC4K-3P3	JFC5K-3P3	JFC7K5-3P3
Ratings	4 KVA	5 KVA	7.5 KVA
Output Rating	2400W	4000W	6000W
Topology	IGBT based DSP Control.		
Input Voltage	Single Phase 230V AC, 190 to 265V AC.		
Input Frequency	50Hz, 47 to 53Hz.		
Input PF	0.8.		
Output Voltage	220V AC / 115V AC +/- 1%.		
Output Frequency	60Hz / 400Hz +/-0.5%.		
Crest Factor	3:1.		
Isolation Transformer	Provided Inbuilt.		
Waveform	Sinusoidal.		
THD	< 3% on linear load.		
Overload	110% for 10 minutes, 125% for 1 minutes, 150% for 5 seconds.		
Effeciency	> 80%.		
Protections	Input & Output Over / Under Voltage. DC - High / Under Voltage, Output - Overload / Short Circuit / Over Temp.		
Audio Alarm	Inverter Trip.		
Metering	Numerical Display for Input & Output Voltage, Current, Frequency.		
Messages	Input - On / High / Low. DC High. SFC - On / Off / Normal, Output - Low / High / Overload / Fail / Short Ckt., Over Temp.		
Indications	Mains On / Inverter On / Trip.		
Controls	Start, Stop & Scroll.		
Noise	<50 dB.		
Humidity	Upto 95% Rh (non-condensing).		
Operating Temp.	0 to 40ºC.		
Cooling	Forced Air.		
Enclosure	IP 20.		
Dimensions (mm)	W 450 x D 650 x H 950		

Technical Specifications (10KVA to 60KVA)

Model No.	JFC10K-3P3	JFC20K-3P3	JFC30K-3P3	JFC40K-3P3	JFC50K-3P3	JFC60K-3P3
Ratings	**10 KVA**	**20 KVA**	**30 KVA**	**40 KVA**	**50 KVA**	**60 KVA**
Output Rating	**8 KW**	**16 KW**	**24 KW**	**32 KW**	**40 KW**	**48 KW**
Topology	IGBT based.					
Input Voltage	415V AC, 335 to 475V AC.					
Input Frequency	50Hz, 47 to 53Hz.					
Input PF	0.92.					
Input Current THD	<30%.					
Output Voltage	115V 1Ø / 200V 3Ø / 400V 3Ø ±1%				200V 3Ø / 400V 3Ø ±1%	
Output Frequency	60 Hz / 400Hz ±0.5%.					
Isolation Transformer	Provided Inbuilt.					
Power Factor	0.8 Lag to Unity.					
Crest Factor	3:1.					
Waveform	Sinusoidal.					
THD	<3% on linear load & <5% on non-linear load.					
Overload	110% for 10 minutes, 125% for 1 minute, 150% for 10 sec.					
Transient Response	For 0 - 50% & 50% - 100% load change voltage remains within ±5%.					
Inverter Efficiency	>88%.					
Protections	Input & Output Over / Under Voltage, Single Phasing DC - High / Under Voltage Output Overload / Short Circuit / Over Temp.					
Audio Alarm	Inverter Trip.					
Metering	Numerical display for Input & Output - Voltage, Current & Frequency, Battery - Voltage & Current.					
Indications	Mains - On / High / Low / Single Phasing DC - On Inverter - On / Trip / High / Low / Over Current					
Termination	Input, Output.					
Switchgear	MCB / MCCB for Input, Output.					
Enclosure	IP 20 / IP 21 / IP 42 / IP 54.					
Humidity	Upto 95% Rh (non-condensing).					
Operating Temp.	0 to 40ºC.					
Cooling	Forced Air.					
Noise	<75 dB.					
Configuration	Standalone / Hot Standby.					
Dimensions (mm) (W x H x D)	600 x 800 x 1300					
Altitude	<1500m.					

JUT Series

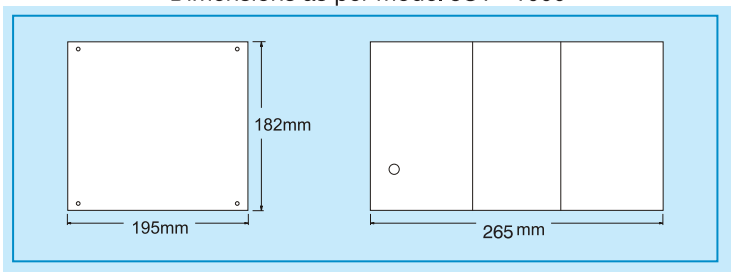
JOMA
Next Gen Power

Certified & Approved by

Ultra Isolation Transformer

- Minimizes transverse mode noise.
- Complete electrostatic shielding.
- Filters power line noise, spikes and transients.
- Isolates sensitive equipments from noisy power lines.
- Minimizing common mode noise by over 130dB.
- Line and load regulation better than ±3.5%.
- Quality components, conservating ratings and ruggedised design for best long term value.

* Dimensions as per model JUT - 1000



MODEL	JUT - 400	JUT - 1000	JUT - 1500	JUT - 2000
Power Rating	400VA	1000VA	1500VA	2000VA
Input Voltage	120V/240V AC, ±10%, 1Phase, 47-63Hz			
Output Voltage	120V/240V AC (2 windings in series or parallel)			
Mode of Operation	As step down or step up or 1:1 Isolation transformer			
Load Regulation	Less than 3.5%			
Common Mode Noise Rejection	Over 130dB			
Operating Temperature	0 - 55°C			
Termination	On terminal block			
Powder Coating Thickness	50 - 100 microns			
Stainless Steel Hardware	Yes			
Coupling Capacitance	< 0.005pF (typically 0.001pF)			
Breakdown Strength	2000V AC for 1 minute			
Insulation Resistance	>1000M Ohm between any windings to ground at 25°C & 50% R.H.			
Dimensions apprx.** W × H× D (Tol : ± 5mm)	162 x 137 x 247	195 x 182 x 265	195 x 182 x 290	195 x 182 x 315
Weight apprx. (Tol : ± 0.5kg)	14Kg	21Kg	28Kg	36Kg

*Note: JOMA reserves the right to specifications and are subject to change without notice. * All dimensions are behind the panel and excluding height legs*

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JUT Series

JOMA
Next Gen Power

Certified & Approved by

Ultra Isolation Transformer

- Minimizes transverse mode noise.
- Complete electrostatic shielding.
- Filters power line noise, spikes and transients.
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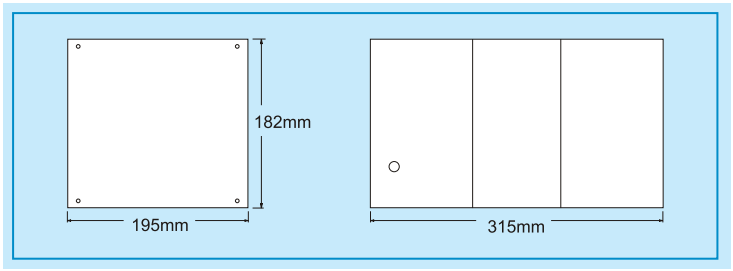
- Line and load regulation better than ±3.5%.
- Quality components, conservating ratings and ruggedised design for best long term value.



MODEL	JUT - 2500	JUT - 3000	JUT - 4000	JUT - 5000
Power Rating	2500VA	3000VA	4000VA	5000VA
Input Voltage	120V/240V AC, ±10%, 1Phase, 47-63Hz			
Output Voltage	120V/240V AC (2 windings in series or parallel)			
Mode of Operation	As step down or step up or 1:1 Isolation transformer			
Load Regulation	Less than 3.5%			
Common Mode Noise Rejection	Over 130dB			
Operating Temperature	0 - 55°C			
Termination	On terminal block			
Powder Coating Thickness	50 - 100 microns			
Stainless Steel Hardware	Yes			
Coupling Capacitance	< 0.005pF (typically 0.001pF)			
Breakdown Strength	2000V AC for 1 minute			
Insulation Resistance	>1000M Ohm between any windings to ground at 25°C & 50% R.H.			
Dimensions apprx.** W × H× D (Tol : ± 5mm)	208 x 246 x 350	208 x 246 x 350		
Weight apprx. (Tol : ± 0.5kg)	42kg	48kg		

*Note: JOMA reserves the right to specifications and are subject to change without notice. * All dimensions are behind the panel and excluding height legs*

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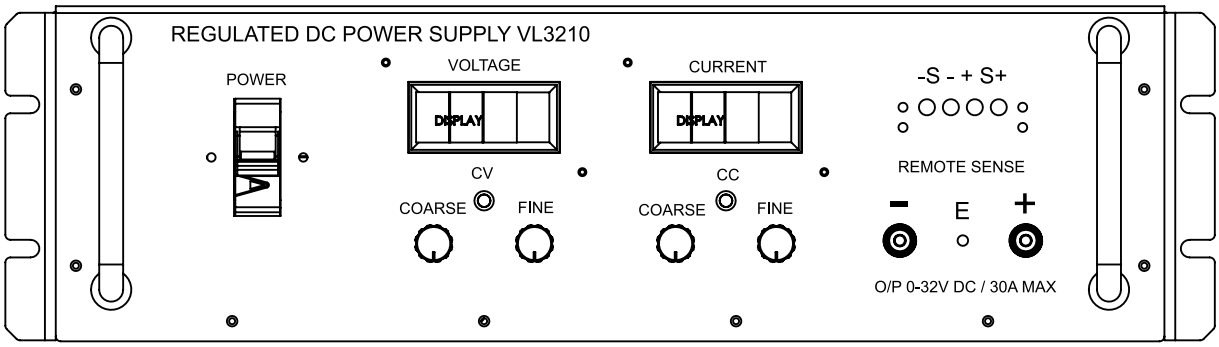
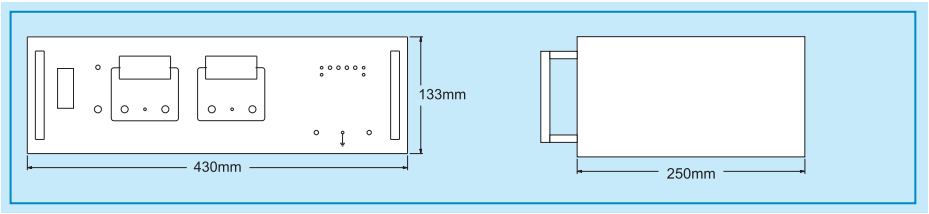
Regulated DC Power Supply VL3210





- Phase Controlled Pre- Regulation Plus Linear Post- Regulation
- Two Digital Meters - 3 Digit DPMs
- Constant Voltage / Constant Current Operation
- 19" Rack Adaptable
- Remote Sensing Facility
- High Stability and Close Regulation ±0.01%

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% line change.
Load : ±0.1% ±250μA for change in output voltage from 0 Volts to maximum output voltage.
Ripple & Noise : 0.04% rms.

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

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

Protection: Overload & short circuit

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 warm-up.
<±0.2% plus 5mV in constant voltage mode.
<±0.5% plus 5mA in constant current mode with constant line, load and ambient temperature conditions.

Operating Temperature :
0 to 55°C.

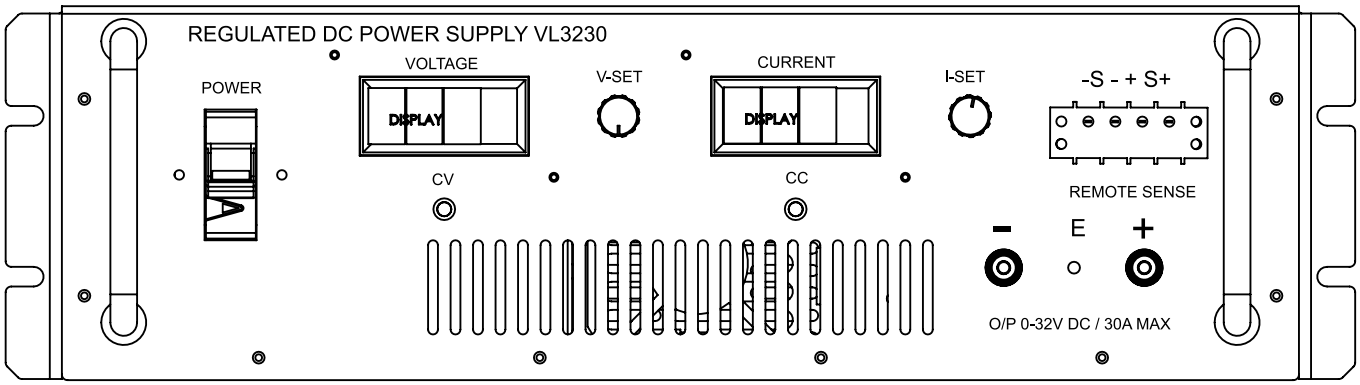
Temp. Coefficient : ±0.05% ±5mV per OC after initial warm-up of 30 minutes, in voltage mode.

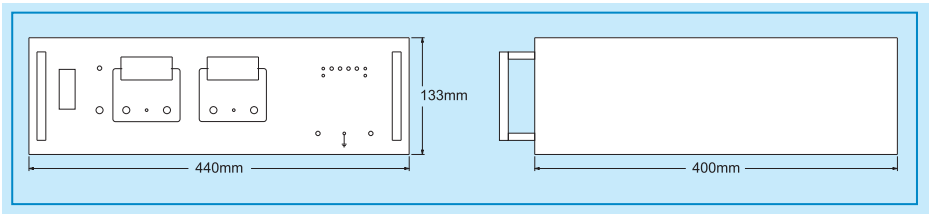
Line Voltage : 230V AC ±10%, single phase 50Hz.

Output Voltage & Current :
Output voltage : 0-32V
Output current : 0-10A

	PV	PI	DIMENSIONS	MODEL	WEIGHT
32V	0- 32V	0- 10A	430 x 133 x 250	VL3210	16.5

DC Regulated Power Supply VL3230





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% ±10mA for ±10% change in line voltage.
Load : ±0.1% ±10mA for change in output voltage from 0 volts to maximum output voltage.
Ripple and Noise : 0.05% rms

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

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

Protection : Overload short circuit (through CC/CV mode)

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 : 0-32V
Output current : 0-30A

- Phase Controlled Pre- Regulation Plus Linear Post- Regulation
- Two Digital Meters - 3 Digit DPMs
- Constant Voltage / Constant Current Operation
- 19" Rack Adaptable
- 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
32V	0-32V	0-30A	440 x 133 x 400	VL3230	22.4