

Omega Manufacture the widest range of all I.C. regulated Power Supplies characterized by their built in reliability and trouble free operation over years. These precisely regulated Power Supplies can be operated either in constant voltage or in constant current mode of operation with automatic cross over characteristics. All supplies are protected against over load & short circuit.

FEATURES

- 01 Low cost general purpose laboratory bench units.
- 02 Uses ICs & silicon devices for high reliability & long life.
- 03 Automatic cross over from CV to CC mode.
- 04 Fully protected against over load and short circuit.
- 05 Better regulation and low ripple.
- 06 Automatic reset after removal of load.
- 07 Output voltage and current fully metered.
- 08 Continuously adjustable voltage & current limit.
- 09 Can be supplied with over voltage protection at an extra cost.
- 10 Electrical floating outputs with respect to ground.
- 11 Compact, Robust and light in weight with attractive front panel.
- 12 L.T. & bias voltage is provided with high voltage supplies to perform the experiments on valves & tubes etc.

APPLICATIONS

I.C. Regulated Variable & Fixed Output Power Supplies can be used for conducting experiments in Telecommunication, Engineering, Industrial Electronics, Nuclear Sciences, Servo Systems, Analogue and Digital Computers, Logic Circuits, D.C. Amplifiers, Calibration of Electrical Meters and Instruments, Educational Institutes etc.

The Constant Current mode of operation can be particularly used to explain ohms law, to test electro mechanical components like relays and also to conduct electromagnetic experiments. Values of low resistors can be found. The supplies can be used to replace lead acid batteries.

As the output impedance is very low, it can be used for more than one circuit without fear of interaction due to the common impedance of the power supply provided the maximum current limit is not exceeded.

GENERAL SPECIFICATIONS

OUTPUT VOLTAGE & CURRENT : Secified against each TYPE No.

INPUT VOLTAGE : 230V $\pm 10\%$, 50Hz

01 CONSTANT VOLTAGE OPERATION MODE.

Load Regulation :

$\pm 0.1\% \pm 2mV$ for load change zero to full load.

Line Regulation :

$\pm 0.1\% \pm 2mV$ for $\pm 10\%$ line change from zero volts to maximum output.

02 CONSTANT CURRENT OPERATION MODE

Load Regulation :

$\pm 0.1\% \pm 250\mu A$ for load change in output voltage.

Line regulation :

$\pm 0.1\% \pm 250\mu A$ for $\pm 10\%$ line change from 0 volts to maximum outputs.

03 Digital Metering :

Specified against each Type No.

04 Temperature Co-efficient :

0.05% Plus 7mV / $1^\circ C$ [After initial warm up of 30 minutes].

05 Stability :

0.2% Plus 50mV [After initial warm up of 30 minutes under constant line, load and temp. conditions.

06 Transient Recovery Time:

100 m Second [Recovery within regulation band for load changed from 10% to 90%]

07 PROTECTION :

Automatic over load & short circuit protection.

Ripple Voltage : Less than 2mV rms.

L.T. Voltage : 6.3V & 12.5V A.C. at 1 Amp.

Bias Voltage : $\pm 25V$, at 10mA continuously variable

Applicable only for high voltage power supplies.

VARIABLE POWER SUPPLIES

The following types are **Variable** Power Supplies with above general specifications. The output voltage & current can be independently set at the desired level with a coarse and a fine control. Continuous reading of output voltage and current is done by two meters.

VARIABLE POWER SUPPLIES WITH DIGITAL PANEL METERS (3½ DIGIT)

OMEGA Type	Output Voltage	Output Current	Metering
ICV-6/3	0-6V	0-3Amp	2 DPMs
ICV-15/05	0-15V	0-500mA	2 DPMs
ICV-15/1	0-15V	0-1A	2 DPMs
ICV-15/2	0-15V	0-2A	2 DPMs
ICV-15/5	0-15V	0-5A	2 DPMs
ICV-15/10	0-15V	0-10A	2 DPMs
ICV-30/05	0-30V	0-500mA	2 DPMs
ICV-30/1	0-30V	0-1A	2 DPMs
ICV-30/2	0-30V	0-2A	2 DPMs
CV-30/3	0-30V	0-3A	2 DPMs
ICV-30/5	0-30V	0-5A	2 DPMs
ICV-30/10	0-30V	0-10A	2 DPMs
ICV-60/1	0-60V	0-1A	2 DPMs
ICV-60/2	0-60V	0-2A	2 DPMs
ICV-60/5	0-60V	0-5A	2 DPMs
ICV-300/01	0-300V	0-100mA	2 DPMs
ICV-300/02	0-300V	0-200mA	2 DPMs

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

OMEGA ELECTRONICS

Works:

28E & F, Malviya Industrial Area,
Jaipur-302 017 (INDIA)
Phone: 0141-2751559

E-mail : info@omegaelectronics.net
: omegajipur62@gmail.com

Marketing Division:

B-28, Fateh Singh Scheme, Opp. Rajputana
Palace Sheraton, Jaipur-302006 (INDIA)
Phone : 091-141-2375647, 2379223

www.omegaelectronics.net

IC REGULATOR POWER SUPPLIES (DUAL) WITH DIGITAL PANEL METERS (3½ DIGIT)

ICVD-15/1	0-15V	0-1A	2 DPMs
	0-15V	0-1A	
ICVD-15/2	0-15V	0-2A	2 DPMs
	0-15V	0-2A	
ICVD-30/1	0-30V	0-1A	2 DPMs
	0-30V	0-1A	
ICVD-30/2	0-30V	0-2A	2 DPMs
	0-30V	0-2A	
ICVD-60/1	0-60V	0-1A	2 DPMs
	0-60V	0-1A	
ICVD-60/2	0-60V	0-2A	2 DPMs
	0-60V	0-2A	
ICVD-300/01	0-300V	0-100mA	2 DPMs
	0-300V	0-100mA	
ICVD-300/02	0-300V	0-200mA	2 DPMs
	0-300V	0-200mA	

MULTI OUTPUT POWER SUPPLIES

It combines four I.C. regulated power supplies mounted on the same chassis with the above general specifications.

Multi Output Power Supplies with Digital Panel Meters 3½ Digit

MOP-1	0-30V	0-2 Amp.	4 DPMs
	0-6V	0-2 Amp.	
	0-15V	0-1 Amp.	
	0-15V	0-1 Amp.	

Multi Output Power Supplies with Digital Panel Meters 3½ Digit



MOP-2

MOP-2	0-30V	0-2 Amp.	3DPMs
	5V ±0.5V	5 Amp.	
	± 12V to 15V	0-0.5Amp.	

0-30V/0-2 Amp. output voltage & current have coarse & fine controls, ± 12V to ± 15V at 500mA., output is having tracking.

FIXED OUTPUT POWER SUPPLIES



MP-5/2

OMEGA FIXED power supplies have compact encasement ideally suitable for being used as Sub-assemblies in a system. 5V DC series are useful for circuit using digital ICs, 12V DC series are useful as battery substitutes & ±12V, ±15V DC dual tracking linear I.C. power supplies are useful for circuit using linear ICs. Having general specification but line regulation in CV mode is 0.05%.

**OMEGA TYPE Output Voltage Output Current
5V DC Digital I.C. Power Supplies**

MP-5/2	5V ±0.5V	2 Amp.
MP-5/5	5V ±0.5V	5 Amp.
MP-5/10	5V ±0.5V	10 Amp.
MP-5/20	5V ±0.5V	20 Amp.

12V DC Fixed Output Power Supplies

MP-12/2	12V ± 1.2V	2 Amp.
MP-12/5	12V ± 1.2V	5 Amp.
MP-12/8	12V ± 1.2V	8 Amp.
MP-12/10	12V ± 1.2V	10 Amp.

48V DC Fixed Output Power Supplies

MP-48/15	48V ± 2V	15 Amp.
MP-48/20	48V ± 2V	20 Amp.

± 5V DC Dual Tracking Linear I.C. Power Supplies

MPD-5/05	± 5V ± 0.5V	500mA
MPD-5/1	± 5V ± 0.5V	1 Amp.
MPD-5/2	± 5V ± 0.5V	2 Amp.

±12V DC Dual Tracking Linear I.C. Power Supplies

MPD-12/05	±12V ± 1.2V	500mA
MPD-12/1	±12V ± 1.2V	1 Amp.
MPD-12/2	±12V ± 1.2V	2 Amp.
MPD-12/3	±12V ± 1.2V	3 Amp.

±15V DC Dual Tracking Linear I.C. Power Supplies

MPD-15/05	±15V ± 1.5V	500mA
MPD-15/1	±15V ± 1.5V	1 Amp.
MPD-15/2	±15V ± 1.5V	2 Amp.
MPD-15/3	±15V ± 1.5V	3 Amp.

SIZES :- Normally in two sizes

01 Dimension : W 290 x H 160 x D 265

02 Dimension : W 425 x H 190 x D 315

NOTE : WE UNDER TAKE THE DEVELOPMENT OF POWER SUPPLIES AS PER YOUR REQUIREMENT.

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

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