

I.C. REGULATED POWER SUPPLIES CONSTANT VOLTAGE/CONSTANT CURRENT VARIABLE, DUALVARIABLE & FIXED OUTPUT

OMEGA TYPE ICV, ICVD, MP&MPD







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 : Specified against each TYPE No. INPUT VOLTAGE : 230V ±10%, 50Hz

01 CONSTANT VOLTAGE OPERATION MODE. Load Regulation : +0.1% + 2mV for load change zero to full load.

<u>+0.1% +2mV for load change zero to full load.</u> Line Regulation :

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

02 CONSTANT CURRENT OPERATION MODE Load Regulation :

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

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

Digital Metering :

Specified against each Type No.

04 Temperature Co-efficient :

0.05% Plus 7mV / 1°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.
- *

03

- 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.

CONTINUE 02

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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4-07-2022

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VARIABLE POWER SUPPLIES WITH **DIGITAL PANEL METERS (3¹/₂ DIGIT)**

OMEGA	Output	Output	
Туре	Voltage	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
ICV-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

IC REGULATOR POWER SUPPLIES (DUAL) WITH DIGITAL PANEL METERS (31/2 DIGIT)

DIGITAL PANEL METERS (3 ¹ / ₂ 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			

FIXED OUTPUT POWER SUPPLIES

OMEGA FIXED power supplies have compact encasement ideally suitable for being used as Subassemblies 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%.

I.C. REGULATED POWER SUPPLIES **CONSTANT VOLTAGE/CONSTANT CURRENT** VARIABLE, DUALVARIABLE & FIXED OUTPUT

OMEGA TYPE ICV, ICVD, MP&MPD



MP-5/2

	OMEGA TYPE 5V DC Digital I.C.	Output Voltage Power Supplies	Output Current			
	MP-5/2	5V ±0.5V	2Amp.			
	MP-5/5	5V ±0.5V	5Amp.			
	MP-5/10	5V ±0.5V	10 Amp.			
	MP-5/20	5V ±0.5V	20 Amp.			
		0. 2010 1	b.			
	12V DC Fixed Output Power Supplies					
	MP-12/2	. 12V±1.2V	2Amp.			
	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 Out	tput Power Suppli	es			
	MP-48/15	48V±2V	15Amp.			
	MP-48/20	48V ± 2V	20 Amp.			
		king Linear I.C. P	ower Supplies			
	MPD-5/05	± 5V ± 0.5V	500mA			
	MPD-5/1	±5V±0.5V	1 Amp.			
	MPD-5/2	$\pm 5V \pm 0.5V$	2 Amp.			
\		cking Linear I.C. F				
	MPD-12/05	$\pm 12V \pm 1.2V$	500mA			
	MPD-12/1	$\pm 12V \pm 1.2V$	1 Amp.			
	MPD-12/2	±12V±1.2V	2Amp.			
	MPD-12/3	±12V ± 1.2V	3Amp.			
AL	ILY PRC					
	±15V DC Dual Tracking Linear I.C. Power Supplies					
	MPD-15/05	$\pm 15V \pm 1.5V$	500mA			
	MPD-15/1	$\pm 15V \pm 1.5V$	1 Amp.			
	MPD-15/2	$\pm 15V \pm 1.5V$	2Amp.			
	MPD-15/3	$\pm 15V \pm 1.5V$	3Amp.			
	SIZES :- Normall					
		290 x H 160 x D				
		/ 425 x H 190 x D 3				
r			DEVELOPMENT OF			
5.	POWER SUPPLIE	ESAS PER YOUR F	REQUIREMENT.			

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