

PRECISION LINEAR POWER SUPPLY

HIGH CURRENT LOW VOLTAGE

MLHCLV-Series

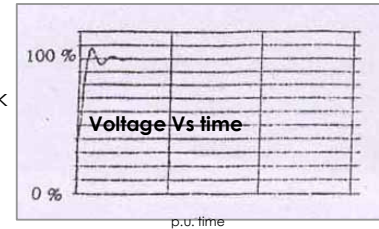
Introduction:

MLHCLV series of linear high current/low voltages supplies are available in (15.0 to 1000 kilo watts), more than 50 different models working in constant voltage/current mode(uni-polar/bi-polar mode) virtually offering solutions to electrochemical, corrosion, petrochemical industry, organic/inorganic chemical, heavy electrical/mechanical industries, machine tools, non-conventional energy, capacitor energy storage. solids state physics application and many uncountable defense/nuclear applications. Updated design topology ensures better controllability and efficiency with additional integrated power/voltage and frequency control/protection. These power supplies may operate in parallel to make it more redundant.

Company offers tailor made solution to custom requirement.

Operating Principle:

These linear high power supply current/low voltage are line commutated S.C.R. based pre-regulated B.J.T. based linear controlled power supply working in feedback cascade mode. Set voltage/current immediately settles to set point with consistent regulation over wide load range and without any hunting with fail proof protection against either over/under voltage. These power supplies may be operated in parallel along with facility of parallel port/serial port to enable it to interface with computer to achieve any real time voltage /current profile.



Time response of power supply



MLHCLV-024100



MLHCLV-024100



MLHCLV-100100

SPECIFICATIONS OF LINEAR HIGH CURRENT/LOW VOLTAGE POWER SUPPLIES(AC/DC)

Power range<100.0 K.Watts

Model	Volts	current	cooling	Model	Volts	Current	Cooling
MLHCLV-030003	30.0	03.0	Air	MLHCLV-010003	100.0	03.0	Air
MLHCLV-030010	30.0	10.0	Air	MLHCLV-010010	100.0	10.0	Air
MLHCLV-030020	30.0	20.0	Air	MLHCLV-010020	100.0	20.0	Air
MLHCLV-030050	30.0	50.0	Air	MLHCLV-100050	100.0	50.0	Air
MLHCLV-030100	30.0	100.0	Air	MLHCLV-100100	100.0	100.0	Air
MLHCLV-050003	50.0	03.0	Air	MLHCLV-300003	300.0	03.0	Air
MLHCLV-050010	50.0	10.0	Air	MLHCLV-300100	300.0	10.0	Air
MLHCLV-050020	50.0	20.0	Air	MLHCLV-300100	300.0	20.0	Air
MLHCLV-050050	50.0	50.0	Air	MLHCLV-600010	600.0	50.0	Air
MLHCLV-050100	50.0	100.0	Air	MLHCLV-600020	600.0	100.0	Air

These power supplies are also offered in multi output /synchronized mode.

General Specification of High current/low voltage power supply:

Operating voltage 220 volts, 1/3 phase, 40-60 Hz
 Output current/voltage 0-300 volts/100 amps (max) (pulse/D.C)/multioutput mode
 Voltage/current control accuracy 99.9% of set point
 Output impedance: compatible to load to ensure maximum possible power transfer.
 Resolution 0.1 volts/amps D.C.
 Repeatability 100 percent
 Response time 0.5 –1.1 mill-seconds
 Voltage regulation: Line: $\pm 0.01\%$ (for $\pm 10\%$ of input change)/ Load: 0.05% (for 10 to 100% of load change)
 Current regulation: Line: $\pm 0.01\%$ (For $\pm 10\%$ of input change)/Load: 0.05% (for 10 to 100% of load change)
 Interface Signal 0.0-12.0 volts D.C. (proportional to process variable)
 Voltage control range 0.0-400 volts
 Step down ratio 0-100%
 Control options 1. Reverse polarity control 2. Cascade feedback control with Soft start 2.Ratio control (option) 2. Contant voltage/current with External adjustment
 Display Voltage/current/kilowatt (3½ red glow LED display) as per requirement
 Protection over voltage/short ckt.
 Additional: Local: Constant voltage mode, by 10-turn potentiometer
 Constant current mode, by 10-turn potentiometer
 Remote: Constant voltage mode, by external voltage of 0 to 10Vdc*



NOTE: These power supplies are also offered in pulse mode /accuracy & regulation may vary from generally offered product.

MOTORON SEMICONDUCTORS CORPORATION

11, Shri nagar colony, Shakti nagar extension, DELHI-110052. Tel: 011-23644180/23655454

e.mail: motoron@hotmail.com