

# LINEAR POWER SUPPLY

Programmable/Non-programmable

MHCLV-Series

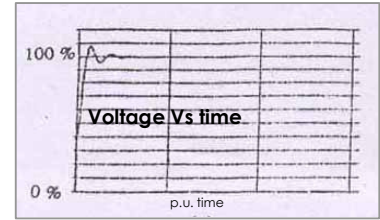
**Introduction:**

MHCLV series of linear high current/low voltages supplies are available in (150.0 watt to 10.0 kilo watts), more than 50 different models working in constant voltage/current mode virtually offering solutions to ultra-precision power solution 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:**

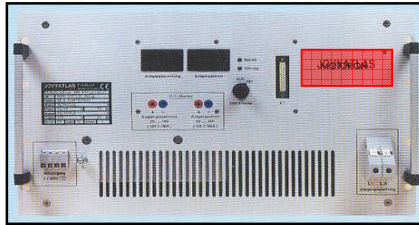
These high power supply current/low voltage are B.J.T. based working in linear region fed by commutated high frequency I.G.B.T. controlled rectifier working in feedback cascade mode. It has inherent umunity towards E.M.I. Set voltage/current settles to set point over wide load range and without any hunting 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



MHCLV-030025



MHCLV-006050



MHCLV-100100

**SPECIFICATIONS OF LINEAR PWER SUPPLIES(AC/DC)**

Power range<10.0 K.Watts

Model	Volts	current	cooling	Model	Volts	Current	Cooling
MHCLV-003003	06.0	03.0	Air	MHCLV-05020	50.0	20.0	Air
MHCLV-006050	06.0	50.0	Air	MHCLV-050150	50.0	30.0	Air
MHCLV-012100	12.0	100.0	Air	MHCLV-100050	100.0	050.0	Air
MHCLV-012200	12.0	200.0	Air	MHCLV-100050	100.0	1.0	Air
MHCLV-030025	30.0	25.0	Air	MHCLV-100100	100.0	3.0	Air
MHCLV-030050	30.0	50.0	Air	MHCLV-100150	100.0	5.0	Air
MHCLV-030100	30.0	100.0	Air	MHCLV-100200	100.0	10.0	Air
MHCLV-030150	30.0	150.0	Air	MHCLV-100400	200.0	2.0	AIR
MHCLV-030200	30.0	200.0	Air	MHCLV-200050	200.0	5.0	Air
MHCLV-050005	50.0	5.0	Air	MHCLV-200100	200.0	10.0	Air
MHCLV-050010	50.0	10.0	Air	MHCLV-400100	400.0	3.0	Air

**High current/low voltage Linear power supply Specification:**

- Operating voltage 220 volts, 1/3 phase, 40-60 Hz
  - Output current/voltage 0-400 volts/400 amps (max)(pulse/D.C)/multioutput mode
  - Voltage/current control accuracy 99.9% of set point
  - Resolution 0.1 volts/amps D.C.
  - Repeatability 100 percent
  - Response time 0.5 –1.1 mill-seconds
  - Voltage regulation: Line : ±0.05% (for ±10% of input change)/ Load: 0.05% (for 10 to 100% of load change)
  - Current regulation: Line : ±0.05% (For ±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. 1.cascade feedback control with soft start 2.Ratio control (option) 2. Contant voltage/current with external adjustment
  - Display Voltage/current/kilowatt/Jules in 3½ red glow LED display
  - 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.



MHVLC-020100

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