

HIGH CURRENT LOW VOLTAGE POWER SUPPLY

Programmable/Non-programmable

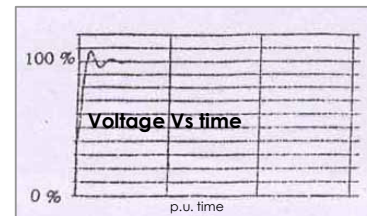
MHCLV-Series

Introduction:

MHCLV series of 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:

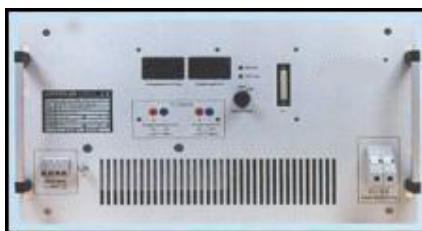
These high power supply current/low voltage are line commutated S.C.R. or force commutated high frequency I.G.B.T. controlled rectifier working in feedback cascade mode. Set voltage/current immediately settles to set point with consistent regulation over wide load range and without any hunting with fail 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



MHCLV-024100



MHCLV-024100



MHCLV-100100

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

Power range < 100.0 K.Watts

Model	Watts	Volts	current	Repetition rate	cooling	Model	Watts	Volts	Current	Repetition rate	Cooling
MHCLV-003003	018.0	06.0	03.0	1200	Air	MHCLV-050200	10,000.0	50.0	2000	800	Air
MHCLV-006050	300.0	06.0	50.0	1200	Air	MHCLV-050400	20,000.0	50.0	4000	800	Air
MHCLV-012025	300.0	12.0	25.0	1200	Air	MHCLV-050200	10,000.0	50.0	2000	800	Air
MHCLV-012050	600.0	12.0	50.0	1200	Air	MHCLV-075020	01500	750.0	020	800	Air
MHCLV-012100	1200.0	12.0	100.0	1000	Air	MHCLV-075040	03000	75.0	050	800	Air
MHCLV-012200	2500.0	12.0	200.0	1000	Air	MHCLV-075100	07500	75.0	100	800	Air
MHCLV-200200	4000.0	20.0	200.0	1000	Air	MHCLV-075200	015000	75.0	200	400	Air
MHCLV-025025	625.0	25.0	25.0	1000	Air	MHCLV-100050	10000.0	100.0	100.0	400	Air
MHCLV-025050	1250.0	25.0	50.0	1000	Air	MHCLV-100100	10000.0	100.0	100.0	400	Air
MHCLV-025100	2500.0	25.0	100.0	800	Air	MHCLV-100100	15000.0	100.0	150.0	400	Air
MHCLV-025150	3750.0	25.0	150.0	800	Air	MHCLV-100300	30000.0	100.0	300.0	400	Air
MHCLV-025200	5000.0	25.0	200.0	800	Air	MHCLV-100400	40000.0	100.0	400.0	400	Air
MHCLV-050050	2500.0	50.0	50.0	800	Air	MHCLV-200400	10000.0	200.0	50.0	400	Air
MHCLV-050100	5000.0	50.0	100.0	800	Air	MHCLV-200050	20,000.0	200.0	100.0	400	Air
MHCLV-050200	5000.0	50.0	200.0	800	Air	MHCLV-200100	20,000.0	200.0	200.0	400	Air
MHCLV-050400	5000.0	50.0	400.0	800	Air	MHCLV-400100	40,000.0	400.0	100.0	400	Air
MHCLV-050075	50000.0	50.0	1000	800	Air	MHCLV-300100	30,000.0	600.0	750.0	400	Air
MHCLV-050150	75000.0	50.0	1500	800	Air	MHCLV-600100	60,000.0	600.0	1500	400	Air

These power supply is 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 0-400 volts/400 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: $\pm 0.05\%$ (for $\pm 10\%$ of input change)/ Load: 0.05% (for 10 to 100% of load change)
 Current regulation: Line: $\pm 0.05\%$ (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. 1.cascade feedback control with soft start 2.Ratio control (option) 2. Constant 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 /accuracy & regulation may vary from generally offered product.

MOTORON SEMICONDUCTORS CORPORATION

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

e.mail: motoron@hotmail.com



HIGH CURRENT LOW VOLTAGE POWER SUPPLY

Programmable/Non-programmable

MHCLV-Series

SPECIFICATIONS OF SWITCHING TYPE HIGH CURRENT/LOW VOLTAGE PULSE POWER SUPPLIES(AC/DC)

Power range<100.0 K.Watts

Model	Watt	Volts	current	Repetition rate ipulse/sec x10	cooling	Model	Watts	Volts	Current	Repetition rate pulse/sec x 10	Cooling
MHCLV-0010501	0050	01.0	050.0	1200	Air	MHCLV-0050501	0250	05.0	050.0	800	Air
MHCLV-0011001	0100	01.0	100.0	1200	Air	MHCLV-0051001	0500	05.0	100.0	800	Air
MHCLV-0011501	0150	01.0	150.0	1000	Air	MHCLV-0052001	1000	05.0	200.0	400	Air
MHCLV-0020501	0100	02.0	050.0	1000	Air	MHCLV-0053001	1500	05.0	300.0	400	Air
MHCLV-0021001	0200	02.0	100.0	1000	Air	MHCLV-0054001	2000	05.0	400.0	400	Air
MHCLV-0021501	0300	02.0	150.0	1000	Air	MHCLV-0061001	0600	06.0	100.0	400	Air
MHCLV-0022001	0400	02.0	200.0	800	Air	MHCLV-0062001	1200	06.0	200.0	400	Air
MHCLV-0030501	0150	03.0	050.0	800	Air	MHCLV-0060501	0300	06.0	050.0	400	Air
MHCLV-0031001	0300	03.0	100.0	800	Air	MHCLV-0061001	0600	06.0	100.0	400	Air
MHCLV-0040501	0200	04.0	050.0	800	Air	MHCLV-0062001	1200	06.0	200.0	400	Air
MHCLV-0041001	0400	04.0	100.0	800.0	Air	MHCLV-0061001	0600	06.0	100.0	400	Air

Three numerals after MHCLV indicates voltage of power supply and last three digit indicates current. All dimensions are in inches

SPECIFICATIONS OF SWITCHING TYPE HIGH CURRENT/LOW VOLTAGE PULSE POWER SUPPLIES(AC/DC)

Power range<100.0 K.Watts

Model	Watts	Volts	current	Repetition rate pulse/sec x10	cooling	Model	Watts	Volts	Current	Repetition rate pulse/sec x 10	Cooling
MHCLV-0010502	00500	01.0	0500	25/option	Air	MHCLV-0050502	02500	05.0	0500	25/option	Air
MHCLV-0011002	01000	01.0	1000	25/option	water	MHCLV-0051002	05000	05.0	1000	25/option	water
MHCLV-0011502	01500	01.0	1500	25/option	water	MHCLV-0052002	10000	05.0	2000	25/option	water
MHCLV-0020502	01000	02.0	0500	25/option	water	MHCLV-0053002	15000	05.0	3000	25/option	water
MHCLV-0021002	02000	02.0	1000	25/option	water	MHCLV-0054002	20000	05.0	4000	25/option	water
MHCLV-0021502	03000	02.0	1500	25/option	water	MHCLV-0061002	06000	06.0	1000	25/option	water
MHCLV-0022002	04000	02.0	2000	25/option	water	MHCLV-0062002	12000	06.0	2000	25/option	water
MHCLV-0030502	01500	03.0	0500	25/option	water	MHCLV-0060502	03000	06.0	0500	25/option	water
MHCLV-0031002	03000	03.0	1000	25/option	water	MHCLV-0061002	06000	06.0	1000	25/option	water
MHCLV-0040502	02000	04.0	0500	25/option	water	MHCLV-0062002	12000	06.0	2000	25/option	water
MHCLV-0041002	04000	04.0	1000	25/option	water	MHCLV-0061002	06000	06.0	1000	25/option	water

High Current low voltage power supplies dimension:

MHCLV-003003	08X06X06	MHCLV-050075	14x14x14	MHCLV-001050	14x14x14	MHCLV-003200	20x16x16
MHCLV-006050	12x08x08	MHCLV-050150	18x16x16	MHCLV-001100	18x16x16	MHCLV-003400	22x18x18
MHCLV-012025	12x10x10	MHCLV-050200	20x18x18	MHCLV-001200	20x18x18	MHCLV-003600	24x18x18
MHCLV-012050	12x10x10	MHCLV-050400	20x18x18	MHCLV-001300	20x18x18	MHCLV-003750	24x20x16
MHCLV-012100	14x10x10	MHCLV-100050	14x12x12	MHCLV-001500	14x12x12	MHCLV-003999	28x14x14
MHCLV-012200	16x12x12	MHCLV-100050	18x16x16	MHCLV-002050	18x16x16	MHCLV-004100	28x14x14
MHCLV-025025	16x14x14	MHCLV-100100	14x14x14	MHCLV-002100	14x14x14	MHCLV-004200	28x16x16
MHCLV-025050	18x10x10	MHCLV-100150	18x16x16	MHCLV-002150	18x16x16	MHCLV-004600	28x18x18
MHCLV-025100	18x12x12	MHCLV-100200	20x16x16	MHCLV-002200	20x16x16	MHCLV-004800	28x20x20
MHCLV-025150	18x14x14	MHCLV-100400	22x18x18	MHCLV-003050	22x18x18	MHCLV-005100	28x22x22
MHCLV-025200	18x16x18	MHCLV-200050	24x18x18	MHCLV-003100	24x18x18	MHCLV-005200	28x22x24
MHCLV-050050	16x16x16	MHCLV-200100	24x20x16	MHCLV-003200	24x20x16	MHCLV-005400	28x24x24

Three numerals after MHCLV indicates voltage x100 of power supply and last three digit indicates amps. All dimensions are in inches.

Above models are in current range of production, however company undertake any tailor made specification power supply.

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