

HIGH SPEED BATTERY CHARGERS

Energy efficient

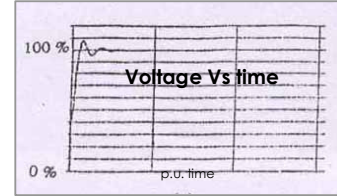
MSPBC-Series

Introduction:

MSPBC series of high current/low voltages supplies are available in (15.0 to 1000 amps), more than 50 different models working in constant voltage/current mode virtually offering complete battery charging solutions to telecom, airlines, railways, electrical utilities, battery operated vehicles, electrochemical, corrosion, petrochemical industry, organic/inorganic chemical, heavy electrical/mechanical industries, machine tools, non-conventional energy, 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 battery chargers may operate in parallel to make it more redundant. Company offers tailor made solution to custom requirement.

Operating Principle:

These battery chargers are line commutated S.C.R. or force commutated high frequency I.G.B.T. controlled convertors working in feedback cascade mode with continuous display of ampere-hour level of battery. Intelligent control system ensures optimal charging of battery without impairing its self-life. These battery chargers 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. Right selection of power conversion topology ensures smooth and reliable battery charging operation.



Time



MSPBC-024100



MSPBC-096100



MSPBC-120100

Model	Watts	Volts	current	Switching frequency k.hz	cooling	Model	Watts	Volts	Current	Switching frequency k.hz	Cooling
MSPBC-006050	300.0	06.0	50.0	05-50	Air	MSPBC-048150	4800.0	48.0	100.0	05-50	Air
MSPBC-012050	600.0	12.0	50.0	05-50	Air	MSPBC-048200	96,00.0	48.0	200.0	05-50	Air
MSPBC-012100	1200.0	12.0	100.0	05-50	Air	MSPBC-096025	19,200.0	48.0	400.0	05-50	Air
MSPBC-012200	2400.0	12.0	200.0	05-50	Air	MSPBC-096050	9,600.0	96.0	100.0	05-50	Air
MSPBC-024025	600.0	24.0	25.0	05-50	Air	MSPBC-096100	19,200.0	96.0	200.0	05-50	Air
MSPBC-024050	1200.0	24.0	50.0	05-50	Air	MSPBC-096150	38,400.0	96.0	400.0	05-50	Air
HHFBC-024100	2400.0	24.0	100.0	05-50	Air	MSPBC-096200	6,00.0	120.0	50.0	05-50	Air
MSPBC-024150	3600.0	24.0	150.0	05-50	Air	MSPBC-120400	12,000.0	120.0	100.0	05-50	AIR
MSPBC-024200	4800.0	24.0	200.0	05-50	Air	MSPBC-120050	24,000.0	120.0	200.0	05-50	Air
MSPBC-048050	2400.0	48.0	50.0	05-50	Air	MSPBC-120100	19,200.0	192.0	100.0	05-50	Air
MSPBC-048100	4800.0	48.0	100.0	05-50	Air	MSPBC-192100	38,400.0	192.0	200.0	05-50	Air

High Frequency Battery Charger Specification:

Operating voltage 220 volts, 1/3 phase, 40-60 Hz
 Output current/voltage 0-400 volts/400 amps D.C. (max)
 Switching frequency 5.0-200 kHz
 Voltage control range 0.0-400 volts
 Voltage/current control accuracy 99.9% of set point
 Current/Voltage Ripple 10.0 volts/amps to 100 micro volts/amps
 Resolution 0.1 volts/amps D.C.
 Response time 0.5-1.1 mill-seconds
 Interface Signal 0.0-12.0 volts D.C./4.0-20.0 mili amps
 Power factor/harmonics 0.95(lagging)/ less than 3% of principal harmonics
 Charging control 1. cascade feedback control with soft start
 2.Contant voltage/current with external adjustment.
 Display Voltage/current/ampere-hour in 3½ red glow LED display
 Protection over/under battery voltage level &
 under/over ampere-hour level & inline surge protection.

Pulse mode battery chargers are also available.

High Frequency Battery Chargers Dimension:

MSPBC-006050	08X06X06	MSPBC-048150	14X12X12
MSPBC-012050	10X06X06	MSPBC-048200	16X14X14
MSPBC-012100	12X08X08	MSPBC-096025	18X16X16
MSPBC-024025	12X10X10	MSPBC-096050	20X18X18
MSPBC-024050	12X10X10	MSPBC-096100	20X18X18
MSPBC-024100	12X10X10	MSPBC-096150	20X18X18
MSPBC-024200	08X06X06	MSPBC-096200	14X12X12
MSPBC-048050	10X06X06	MSPBC-096400	16X14X14
MSPBC-048100	18X16X14	MSPBC-192100	18X16X16

Three numerals x 100 after MSPBC indicates voltage of battery charger and last three digit indicates current. All dimensions are in inches.



MOTORON SEMICONDUCTORS CORPORATION

33, Shri nagar colony, shakti nagar extension, DELHI-110052. Tel: 011-23648181/23655454
 e.mail: motoron@hotmail.com