

RECTIFIER SYSTEM

1BC SERIES



**A Compact Industrial DC System
Specially Designed for Power
Stations and Substations**



LCD Multifunctional Panel

Product Snapshot:

Technology: Isolated Thyristor Bridge with Embedded MCU Digital Controller
Output Current: 25-150 A
Output Voltage: 24,48,110Vdc
Input Voltage: 230Vac, 50Hz, single phase

Marstech standby power system chargers are built for both lead acid and nickel cadmium batteries. It has incorporated the most asked-for features and offers a high degree of standardization and reliability. Development of the system took into account the requirements of our customers and the experience acquired by **Marstech** over more than 10 years of activity in the area of power conversion technology.

Marstech system is based on a full thyristor bridge controlled by microprocessor. The system is provided with a LCD control panel, displaying the operational status of the equipment. Serial interfaces are available for remote control of the system. Upon request supervision application software is available for monitoring via PC.

MAIN FEATURES

- Industrial layout
- Easy maintenance/front access
- Input isolation transformer protected by MCCB
- Full set of battery charging methods available
- Microprocessor control
- LCD Display

Main Options

- Customized input and output voltage
- AC mains failure monitoring
- DC earth fault monitoring
- Temperature compensated battery charging
- Timer controlled battery charging
- Reversible operation (battery discharging to the ac mains)
- Full bridge
- Additional PFI filters
- Additional THD filters
- Special painting and protection degree
- DC/DC stabilizer(dropping diodes or chopper regulator)
- Parallel active load sharing (up to 6 can bus connection)
- Double branch configuration
- Output distribution panels

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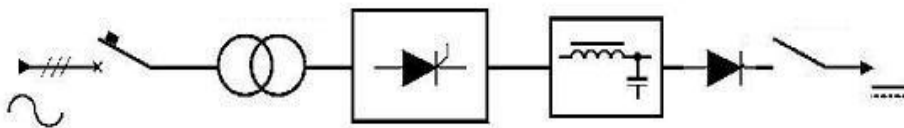
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Technical Characteristics

Model 1BC-	24-30	30-30	30-40	48-20	48-30	48-40	110-10	110-20
Size (A)	30	30	40	20	30	40	10	20
Input voltage	Single phase 230 +/- 20% Vac (other as option), 50–60Hz +/- 1Hz							
Input THD	Full bridge rectifier, 27% THD							
Output voltage	24Vdc–110Vdc (Other as option)							
Ripple	+/- 2%Vn(RMS)							
Static stability	+/- 1% Vn							
Overload	120% for 20 min.							
Ventilation	Natural							
Efficiency (%)	> 90%							
Noise	< 60-62 , 1m (dBA)							
Dimensions (mm)	W	480	480	480	600	600	600	600
	D	300	300	300	480	480	480	620
	H	1000	1000	1000	1265	1265	1265	1600
Weight (kg)	150	200	250	300	150	250	300	350
IP Degree	IP20 (other as option)							
Color	RAL 7035 (other as option)							
Operating Temperature	-10°C to +40°C							

Single line Diagram



Standards

Low voltage assemblies	IEC 439
Semiconductor convertors	IEC 146
Power transformers	IEC 76
Degree of protection	IEC 529
Safety	IEC EN 50178
Electromagnetic compatibility	IEC EN 61000-6-1, IEC EN 61000-6-2 IEC EN 61000-6-4

