

SBS-MicroSMART RHF

Rapid High Frequency Industrial Battery Charger

The new MicroSMART Rapid High Frequency (RHF) Battery Charger from SBS provides you with a powerful, energy-efficient battery charger in a sleek lightweight package. Utilizing a modern, state-of-the-art MOSFET power conversion circuit, the MicroSMART charger efficiently and accurately converts AC power to the proper DC power levels required to precisely charge an industrial battery.

High-Frequency Based Multi-Charger Benefits

- Microcomputer smart charger
- Charges all common battery types
- High efficiency, 92%
- High power factor, 0.95
- Low weight and small volume
- Advanced precision control for best battery life
- Display and control panel permit simple programming
- Archived charge data, 1,800 cycles
- 480VAC 3 phase, 60Hz
- Wireless radio standard on all MicroSMART chargers
- Wall mount design



Charging Technology

- Unique charging algorithm for High Frequency / Rapid Charge applications
- Pulse charging profile to maximize acid mixture during charging

Equalize

Batteries must be equalized on a regular basis to ensure maximum life. The MicroSMART charger facilitates this routine through its auto equalize feature which allows equalize cycles to be programmed for a specific day of week, or by number of complete charge cycles.

Energy Saving Features

In addition to the energy efficient MOSFET design of the MicroSMART charger, the advanced control provides other energy-saving options such as charge block-out periods. Each day, up to three different periods may be blocked from charging. This feature can be used to avoid peak demand periods, time of day use billing, or any other reason why you may not want chargers running during a particular time of day.

Monday Morning Refresh

When a battery has been sitting over the weekend there is a certain amount of self-discharge that occurs. In order to provide a fresh, fully charged battery, you can program the charger to charge for up to 60 minutes prior to the start of the work week.

Communication

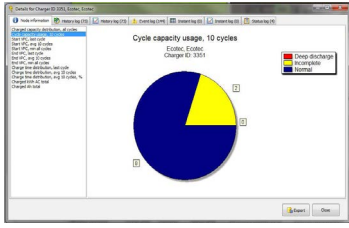
Every MicroSMART charger is equipped with a radio transceiver that allows the charger to communicate with other chargers as well as a host computer when equipped with the optional MicroSMART USB Gateway. The wireless communication system is FCC certified.

Ionic Mixing Option

When the Ionic mixing charge curve is selected, the charger pulses the output current during the finish portion of the charge cycle resulting in brief periods of increased gassing. This gassing action improves the mixing of the electrolyte without increasing electrolyte usage. This ensures that the heavy acid at the bottom of the cell is thoroughly mixed throughout the cell, preventing stratification and extending battery life.

CEC & UL480, CUL 480/600

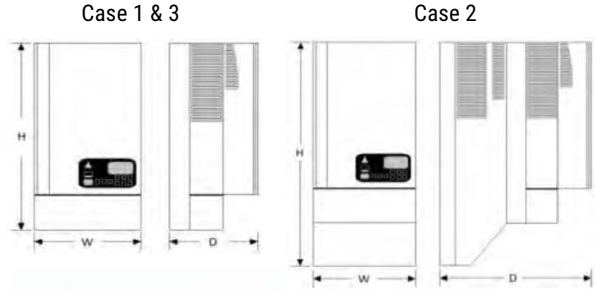




Software Reporting



Battery Monitoring Unit (BMU) & USB Dongle



Charger Cabinet Dimensions

Enclosure	H (in.)	W (in.)	D (in.)
0 (5kW)	13.50"	10.50"	5.50"
1 (8kW)	21.00"	10.00"	9.00"
2 (16kW)	25.75"	10.00"	19.25"
3 (10kW)	22.50"	10.50"	9.75"

480 VAC Charger					
Cells	Model Number	Max DC Volts	Max Start Amps Out	Max. AC Amp Draw @ 480 VAC	Approx. Ship Weight
12	24-255-300C	24	64	3	20
	24-375-300C	24	94	4	22
	24-510-300C	24	128	5	25
	24-680-310C	24	170	7	49
	24-765-330C	24	191	8	55
	24-880-330C	24	220	9	55
	24-935-320C	24	234	10	87
	24-1045-320C	24	260	11	90
	24-1190-320C	24	298	12	94
24-1445-320C	24	361	15	97	
18	36-255-300C	36	64	4	20
	36-420-300C	36	105	6	22
	36-510-310C	36	128	8	46
	36-680-310C	36	170	10	49
	36-765-330C	36	191	12	57
	36-880-330C	36	220	13	57
	36-935-320C	36	234	14	87
	36-1045-320C	36	260	16	90
	36-1190-320C	36	298	18	90
	36-1360-320C	36	340	20	94
	36-1445-320C	36	360	22	97
	36-1680-320C	36	420	26	97
24	48-320-300C	48	80	6	22
	48-510-310C	48	128	11	49
	48-595-330C	48	149	12	55
	48-660-330C	48	165	13	55
	48-765-320C	48	191	16	87
	48-935-320C	48	234	18	87
	48-1045-320C	48	260	21	90
	48-1275-320C	48	319	25	90
	48-1320-320C	48	330	26	90
72	72-255-330C	72	64	7	43
	72-320-330C	72	80	9	46
	72-400-330C	72	100	11	50
	72-680-320C	72	160	19	55
	72-800-320C	72	200	22	57
80	80-255-330C	80	64	9	43
	80-320-330C	80	80	11	46
	80-400-330C	80	100	13	55
	80-510-320C	80	128	17	86
	80-680-320C	80	160	22	86
	80-800-320C	80	200	26	90

208/240 VAC Charger – Additional Cost					
Cells	Model Number	Max DC Volts	Max Start Amps Out	Max. AC Amp Draw @ 208/240	Approx. Ship Weight
12	24-255-300C-L	24	64	6/6	20
	24-375-300C-L	24	94	9/8	22
	24-510-300C-L	24	128	11/10	25
	24-680-310C-L	24	170	16/14	49
	24-765-320C-L	24	191	18/16	87
	24-880-320C-L	24	220	23/20	87
	24-935-320C-L	24	234	23/20	90
	24-1045-320C-L	24	260	25/22	94
	24-1190-320C-L	24	298	29/25	94
18	36-255-300C-L	36	64	9/8	20
	36-420-300C-L	36	105	13/12	22
	36-510-310C-L	36	128	17/15	46
	36-680-310C-L	36	170	23/20	49
	36-765-320C-L	36	191	28/24	86
	36-935-320C-L	36	234	33/29	86
	36-1045-320C-L	36	260	37/32	90
	36-1360-320C-L	36	340	48/41	94
24	48-320-300C-L	48	80	13/12	22
	48-510-310C-L	48	128	23/20	49
	48-595-320C-L	48	149	28/24	86
	48-680-320C-L	48	170	30/26	86
	48-765-320C-L	48	191	37/32	87
	48-935-320C-L	48	234	42/36	87
	48-1045-320C-L	48	260	49/43	90
72	72-255-310C-L	72	64	16/14	41
	72-320-310C-L	72	80	20/18	43
	72-510-320C-L	72	128	32/28	86
	72-635-320C-L	72	160	41/35	86
80	80-255-310C-L	80	64	19/16	43
	80-320-310C-L	80	80	24/21	46
	80-510-320C-L	80	128	38/33	86
	80-635-320C-L	80	160	47/41	86

- All standard SB connectors included in price, SB50, SB175, SB350
- SBX, Euro (DIN) style connectors, Schaltbau connectors are optional
- Also available in 600 VAC; please contact SBS

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