

# SBS-MicroSMART HF

## High Frequency Industrial Battery Charger

The new MicroSMART High Frequency (HF) 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. Can perform standard or opportunity charge.

### 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
- 3 phase input
- Wireless radio standard on all MicroSMART chargers
- Wall mount design
- Multi DC voltage capability



### 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

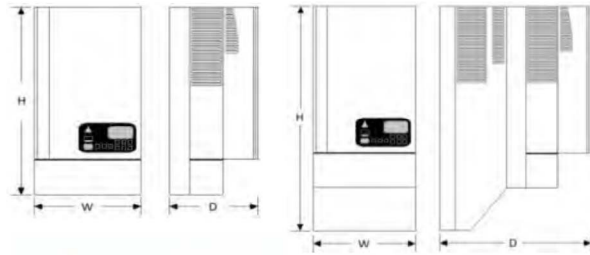


### Charger Cabinet Dimensions

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"

Case 1 & 3

Case 2



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

### 480 VAC Charger

Cells	Model Number	Max DC Volts	Max Start Amps Out	Max. AC Amp Draw @ 480 VAC	Approx. Ship Weight
12	24-255-30	24	42	2	20
	24-375-30	24	61	3	20
	24-510-30	24	83	4	22
	24-600-30	24	98	4	22
	24-680-30	24	111	5	22
	24-765-30	24	125	5	25
	24-935-31	24	152	6	49
	24-1045-31	24	170	7	49
	24-1190-33	24	194	8	55
24-1350-33	24	220	9	55	
18	36-255-30	36	42	3	20
	36-375-30	36	61	4	20
	36-510-30	36	83	5	22
	36-650-30	36	105	6	22
	36-765-31	36	125	8	49
	36-935-31	36	152	9	49
	36-1045-31	36	170	10	49
	36-1190-33	36	194	12	57
	36-1275-33	36	208	13	57
	36-1350-33	36	220	13	57
	36-1600-32	36	260	16	90
	24	48-255-30	48	42	3
48-375-30		48	61	4	20
48-500-30		48	80	6	22
48-680-31		48	111	9	46
48-800-31		48	130	11	49
48-935-33		48	152	12	57
48-1010-33		48	165	14	57
48-1190-32		48	194	16	87
48-1360-32		48	222	18	87
48-1600-32		48	260	21	90
72	72-255-33	72	42	5	43
	72-500-33	72	80	9	46
	72-680-32	72	111	12	84
	72-800-32	72	125	14	86
	72-980-32	72	160	18	86
	72-1045-32	72	170	19	86
	72-1230-32	72	200	22	90
80	80-255-33	80	42	6	43
	80-500-33	80	80	11	46
	80-615-33	80	100	13	57
	80-680-32	80	111	15	84
	80-800-32	80	130	17	86
	80-980-32	80	160	21	86
	80-1045-32	80	170	22	89
	80-1230-32	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	24-255-30-L	24	42	4/4	20
	24-375-30-L	24	61	7/6	20
	24-510-30-L	24	83	9/8	22
	24-600-30-L	24	98	9/8	22
	24-680-30-L	24	111	11/10	22
	24-765-30-L	24	125	11/10	49
	24-935-31-L	24	152	14/12	49
	24-1045-31-L	24	170	14/14	49
	24-1190-32-L	24	194	18/16	55
24-1350-32-L	24	220	20/18	55	
18	36-255-30-L	36	42	7/6	20
	36-375-30-L	36	61	9/8	20
	36-510-30-L	36	83	11/10	22
	36-650-30-L	36	105	13/12	22
	36-765-31-L	36	125	17/15	49
	36-935-31-L	36	152	20/18	49
	36-1045-31-L	36	170	23/20	49
	36-1190-32-L	36	194	28/24	57
	36-1275-32-L	36	208	30/26	60
	36-1350-32-L	36	220	32/28	60
36-1600-32-L	36	260	37/32	90	
24	48-255-30-L	48	42	7/6	20
	48-375-30-L	48	61	9/8	20
	48-500-30-L	48	80	13/12	22
	48-680-31-L	48	111	20/17	46
	48-800-31-L	48	130	23/20	49
	48-935-32-L	48	152	28/24	57
	48-1045-32-L	48	170	32/28	57
	48-1190-32-L	48	194	35/30	87
	48-1360-32-L	48	222	40/34	87
	48-1600-32-L	48	260	47/40	90
72	72-255-31-L	72	42	11/9	43
	72-500-31-L	72	80	20/18	46
	72-680-32-L	72	111	28/24	84
	72-800-32-L	72	130	33/29	87
	72-980-32-L	72	160	41/35	87
80	80-255-31-L	80	42	12/11	43
	80-500-31-L	80	80	24/21	46
	80-680-32-L	80	111	33/28	84
	80-800-32-L	80	130	38/33	87
	80-980-32-L	80	160	47/41	87