

# AUTOMATIC BATTERY CHARGERS

## Multi-Stage Charging



● SEC-1215A  
12 Volt / 15 Amps  
3 Bank, 3 Stage  
Input voltage can be set for 230V



● SEC-1230A  
12 Volt / 30 Amps  
3 Bank, 3 Stage  
Input voltage can be set for 230V



● SEC-2415A  
24 Volt / 15 Amps  
3 Bank, 3 Stage  
Input voltage can be set for 230V



● SEC-1245A  
12 Volt / 45 Amps  
2 Bank, 3 Stage



● SEC-2425A  
24 Volt / 25 Amps  
2 Bank, 3 Stage



● Desktop Style  
12 Volt or 24 Volt Models  
4,8 or 16 Amps Output  
Input voltage can be set for 230V  
CE, CSA, NRTLCA Approvals

### FEATURES

- Safe for Gel Cell Batteries
- Fully Automatic
- Extends Battery Life
- 2 Year Warranty
- High Efficiency
- 12 VDC & 24 VDC Models

see back for complete specifications



## AUTOMATIC BATTERY CHARGERS - MULTI-STAGE

	<u>SEC-1215A</u>	<u>SEC-1230A</u>	<u>SEC-2415A</u>	<u>SEC-1245A</u>	<u>SEC-2425A</u>
<b>INPUT VOLTAGE</b>					
Factory set 120 VAC nominal	98-132 VAC	98-132 VAC	98-132 VAC	98-132 VAC	98-132 VAC
*230 VAC by jumper setting	207-253 VAC	207-253 VAC	207-253 VAC	n/a	n/a
<b>INPUT FREQUENCY</b>	50 / 60Hz	50 / 60Hz	50 / 60Hz	50 / 60Hz	50 / 60Hz
<b>OUTPUT VOLTAGE</b>					
Charging	*Selectable 1	*Selectable 1	*Selectable 2	*Selectable 1	*Selectable 2
Maintenance	13.5 VDC	13.5 VDC	27 VDC	13.5 VDC	27 VDC
<b>MAXIMUM CHARGING CURRENT</b>	15 Amps	30 Amps	15 Amps	45 Amps	25 Amps
<b>OUTPUT BANKS</b>	3	3	3	2	2
<b>OPERATING TEMPERATURE</b>	0 ~ 40 C	0 ~ 40 C	0 ~ 40 C	0 ~ 55 C	0 ~ 55 C
<b>PROTECTIONS</b>					
Short Circuit	Yes	Yes	Yes	Yes	Yes
Over Load	Yes	Yes	Yes	Yes	Yes
Reverse Polarity	Yes	Yes	Yes	Yes	Yes
Over Temperature	No	Yes	Yes	Yes	Yes
<b>DIMENSIONS - inches</b>	8.5 x 8.4 x 3.3	10.8 x 8.4 x 3.3	10.8 x 8.4 x 3.3	12 x 9 x 4.25	12 x 9 x 4.25
<b>DIMENSIONS - millimeters</b>	215 x 214 x 82	273 x 214 x 82	273 x 214 x 82	305 x 230 x 108	305 x 230 x 108
<b>WEIGHT - pounds</b>	4.8 lbs	6.4 lbs	6.4 lbs	11.1 lbs	11.1 lbs
<b>WEIGHT - kilograms</b>	2.2 kgs	2.9 kgs	2.9 kgs	5.1 kgs	5.1 kgs
<b>WARRANTY</b>	2 Years	2 Years	2 Years	2 Years	2 Years
*Selectable 1	14 VDC, 14.4 VDC or Disabled based on selection by DIP switch				
*Selectable 2	28 VDC, 28.8 VDC or Disabled based on selection by DIP switch				

### "DESKTOP" STYLE

	<u>ESC-120-13.5</u>	<u>ESC-120-27</u>	<u>ESC-240-13.5</u>	<u>ESC-240-27</u>
<b>INPUT VOLTAGE</b>	← 88 ~ 132 VAC / 176 ~ 264 VAC selectable by switch →			
<b>INPUT FREQUENCY</b>	47-63 Hz	47-63 Hz	47-63 Hz	47-63 Hz
<b>OUTPUT VOLTAGE</b>	13.5 VDC	27 VDC	13.5 VDC	27 VDC
<b>OUTPUT VOLTAGE ADJ. RANGE</b>	12 ~ 15 VDC	24 ~ 30 VDC	12 ~ 15 VDC	24 ~ 30 VDC
<b>MAXIMUM CHARGING CURRENT</b>	8 Amps	4 Amps	16 Amps	8 Amps
<b>OUTPUT BANKS</b>				
<b>OPERATING TEMPERATURE</b>	-10 ~ +60C	-10 ~ +60C	-10 ~ +60C	-10 ~ +60C
<b>PROTECTIONS</b>	Over Load, Over Voltage, Over Temperature, Battery Polarity, Battery Under/Over Voltage			
<b>SAFETY</b>	CSA,CE	CSA,CE	CSA,CE	CSA,CE
<b>DIMENSIONS - inches</b>	5.9 x 5.5 x 3.4	5.9 x 5.5 x 3.4	5.9 x 5.5 x 3.4	5.9 x 5.5 x 3.4
<b>DIMENSIONS - millimeters</b>	150 x 140 x 86	150 x 140 x 86	150 x 140 x 86	150 x 140 x 86
<b>WEIGHT - pounds</b>	3.1 lbs	3.1 lbs	3.1 lbs	3.1 lbs
<b>WEIGHT - kilograms</b>	1.38 kg	1.38 kg	1.38 kg	1.38 kg
<b>WARRANTY</b>	2 Years	2 Years	2 Years	2 Years

**APPLICATIONS:** Marine . Automotive . Communications . Laboratory . Test Bench . Alternative Energy