



# FERRORESONANT CHARGE System™



**SIMPLY  
DEPENDABLE**  
Tried and True Charger  
Technology

**Maximize Battery  
Performance and  
Life**  
Efficient charge solutions for  
all your motive power needs

GECI Black Diamond™ Fully Automatic Control Flux Chargers are designed to eliminate power dissipation and utilize a maximum productivity transformer to keep your fleet up and running efficiently.





# FERRORESONANT CHARGE



## FEATURES

- Fully Automatic
- Auto Start & Stop
- Fully Digital Display Charger
- Manual & Auto Equalize
- Auto Refresh
- Diagnostics Display
- Automatic Data Saving
- 8 ft. Cable
- Push Button Recall
- Full Technical Support
- Control Board Fits All Models
- Tough Coat Finish
- Short Circuit, Overload Protection
- Re-enforced Corners Allow for Stacking
- Adjustable Gassing Points from 2.35-2.45
- Elapsed Time & Elapsed Time Memory

### GECI Black Diamond™ Charger - Single Phase

DC Volt Current AC 208/240/480 Single Phase	Part Number	Case Size	Popular Batteries	Recharge Range 8 hours 18% Start Rate	Amp Draw 208/240/480
24/40	12BD-0220-B1	*E5		0-220	8/7/3
24/60	12BD-0350-B1	*E6	12-85-7	220-350	11/10/5
24/80	12BD-0450-B1	*E6		350-450	15/13/7
24/100	12BD-0550-B1	A	12-85-13	450-550	19/17/8
24/120	12BD-0700-B1	A	12-85-15	550-700	23/20/10
24/140	12BD-0800-B1	A	12-125-13	700-800	27/23/12
24/160	12BD-0925-B1	A	12-125-15	800-925	30/26/13
36/60	18BD-0350-B1	*E6		220-350	17/15/7
36/80	18BD-0450-B1	*E6		350-450	23/20/10
36/100	18BD-0550-B1	A		450-550	29/25/12
36/120	18BD-0700-B1	A	18-85-17	550-700	34/30/15
36/140	18BD-0800-B1	A	18-85-19 18-125-13	700-800	40/35/17
36/160	18BD-0925-B1	A	18-85-21 18-125-15	800-925	46/40/20
48/50	24BD-0275-B1	*E6		220-275	19/17/8
48/60	24BD-0350-B1	A		275-350	23/20/10
48/80	24BD-0450-B1	A		350-450	30/26/13
48/100	24BD-0550-B1	A		450-550	38/33/17
48/120	24BD-0700-B1	A	24-85-17	550-700	46/40/20
48/140	24BD-0800-B1	A	24-85-19 24-125-13	700-800	53/46/23

Case Sizes Width x Depth x Height: \*Plug-in Chargers -120/240 only  
 A: 19.69" w x 14.17" d x 27.56" h \*E5: 09.06" w x 08.09" d x 09.50" h  
 B: 19.69" w x 17.72" d x 35.43" h \*E6: 09.06" w x 09.45" d x 09.06" h

AC voltage code in Model # A: 208 – 240  
 B: 208 – 240 – 480  
 C: 208 – 240 – 480  
 D: 480

The recommended rate meets or exceeds 100% charge rate. Use the recharge range column to choose your model number of the charger required. The model number is the maximum size charger for the current output.

# MAXIMIZE YOUR BATTERY PERFORMANCE & LIFE

## Dependable, Tried and True Charger Technology

GECI Black Diamond™ Charger - 3 Phase					
DC Volt Current AC 208/240/480 3 Phase	Part Number	Case Size	Popular Batteries	Recharge Range 8 hours 18% Start Rate	Amp Draw 208/240/480
24/40	12BD-0220-C3	A		0-220	4/4/2
24/60	12BD-0350-C3	A	12-85-7	220-350	7/6/3
24/80	12BD-0450-C3	A		350-450	9/8/4
24/100	12BD-0550-C3	A	12-85-13	450-550	11/10/5
24/120	12BD-0700-C3	A	12-85-15	550-700	13/11/6
24/140	12BD-0800-C3	A	12-125-13	700-800	15/13/7
24/160	12BD-0925-C3	A	12-125-15	800-925	18/15/8
24/180	12BD-1000-C3	A	12-125-17	925-1000	20/17/9
24/200	12BD-1100-C3	A		1000-1100	22/19/10
24/220	12BD-1200-C3	A		1100-1200	24/21/11
24/240	12BD-1300-C3	A	12-125-19	1200-1300	26/23/11
36/60	18BD-0350-C3	A		220-350	10/9/4
36/80	18BD-0450-C3	A		350-450	13/11/6
36/100	18BD-0550-C3	A		450-550	17/14/7
36/120	18BD-0700-C3	A	18-85-17	550-700	20/17/9
36/140	18BD-0800-C3	A	18-85-19 18-125-13	700-800	23/20/10
36/160	18BD-0925-C3	A	18-85-21 18-125-15	800-925	26/23/11
36/180	18BD-1000-C3	A	18-85-23 18-125-17	925-1000	30/26/13
36/200	18BD-1100-C3	A	18-85-25	1000-1100	33/29/14
36/220	18BD-1200-C3	B	18-85-27	1100-1200	36/31/16
36/240	18BD-1300-C3	B	18-85-29	1200-1300	40/34/17
36/260	18BD-1450-C3	B	18-85-31	1300-1450	43/37/19
36/280	18BD-1600-C3	B	18-85-33	1450-1600	46/40/20
48/40	24BD-0220-C3	A		0-220	9/8/4
48/50	24BD-0275-C3	A		220-275	11/10/5
48/60	24BD-0350-C3	A		275-350	13/11/6
48/80	24BD-0450-C3	A		350-450	18/15/8
48/100	24BD-0550-C3	A		450-550	22/19/10
48/120	24BD-0700-C3	A	24-85-17	550-700	26/23/11
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48/160	24BD-0925-C3	A	24-85-21 24-125-15	800-925	35/31/15
48/180	24BD-1000-C3	A	24-125-17	925-1000	40/34/17
48/200	24BD-1100-C3	A		1000-1100	44/38/19

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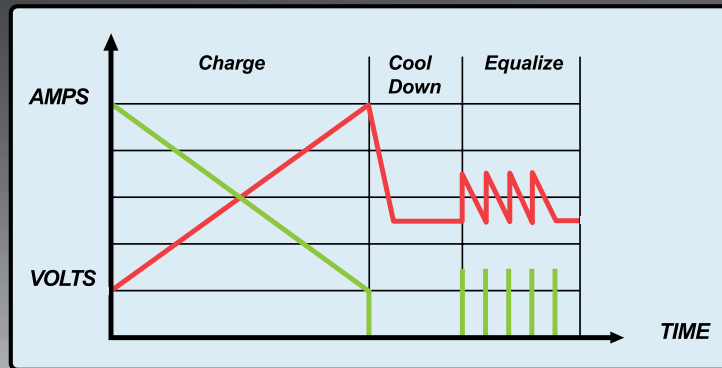
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**Dependable, Tried and True Charger Technology**



The consistently dependable GECI Control Flux Chargers have a maximum productivity transformer, that has no resonant windings or parts that dissipate power, and the rectifier operates in full wave mode, eliminating power dissipation and unwanted harmonic distortion. In three phase units, usual efficiency levels are around 90% and power factor is around 0.92. The taper curve is controlled, characterized by Constant Current at the max rated value until battery reaches the gassing voltage; Constant Voltage, until the current goes down to a specific value; and Constant Current, at the finishing rate.

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## GECI

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-Powering The Future-

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