



# AQUA DIAMOND



The GSE Diamond® High Frequency Charger is based on High Frequency IGBT technologies, featuring a perfect combination of very high efficiency, high power factor (PFC), universal capabilities and precise charge control. Built to withstand harsh environmental conditions, the GSE Diamond® IGBT Series will deliver the maximum power output to service the most demanding GSE applications for cargo and aircraft tugs, tow tractors, baggage tractors, belt loaders and other electric ground support equipment.



## Features:

- Environmental Protection from the elements NEMA3R/IP54 Cabinet
- High Frequency IGBT Technologies
- Universal capabilities and precise charge control
- Perfectly filtered output current. 100% constant current.
- Very low output ripple at <2%
- Very high efficiency (>90% average, >95% peak)
- Near unity power factor (>0.95)
- Multi-Voltage, Multi-Capacity, Multi-Chemistry, Lithium Optional
- California Energy Commission compliant option available
- Charging curve is programmable with any type of battery
- Short circuit and overload protection
- Heavy duty design, military-grade electronic parts
- Alphanumeric LCD diagnostics display
- Full technical support
- Outstanding warranty
- Available in Black, Green & Red Diamond



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## GECI AQUA Diamond™ Charger

CEC Rated for 208/240/480	Model Number	DC volt Current	Cabinet Size	Output Voltage Range	Max Output Power	Amp Draws @ 208/240/480
	BDN-080200T-483	24V max200*	TN	24-80 Vdc	12kW	39/34/17
		36V max200*	TN			
		48V max200*	TN			
		72V max120*	TN			
		80V max120*	TN			
Model Number	DC volt Current		Output Voltage Range	Max Output Power	Amp Draws @ 480/600	
BDN-080200T-648	24V max200*	TN	24-80 Vdc	12kW	17/14	
	36V max200*	TN				
	48V max200*	TN				
	72V max120*	TN				
	80V max120*	TN				
BDN-080250T-648	24V max250*	TN	24-80 Vdc	15kW	20/17	
	36V max250*	TN				
	48V max250*	TN				
	72V max160*	TN				
	80V max160*	TN				

\*Max output current could be decreased when internal temperature exceed the max limit

Cabinet Size:

TN: 22.05" W x 25.98" D x 37" H

## GECI AQUA Diamond™ Accessories

### Battery Module Harness

Model Number: BMOD-R

- Temperature Sensor
- Water Level
- Current Sensor
- Voltage Meter



### Kit Charger Stand

Model Number: 0303325-1

- Height 30.9"
- Enclosure MAXI-A5 Cabinet Size
- Available Max 2 Pogo Stick (order separately, MN: 0303325-P)



### Pogo Stick per Cable Output

Model Number: 0303325-P

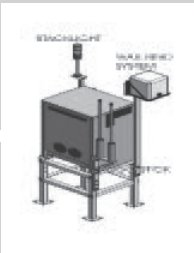
- Compatible with both stands (MN: 0303325-1 and 0303325-2)



### Kit Charger Stand

Model Number: 0303325-2

- Height 21.65"
- Enclosure MAXI-A5 Cabinet Size
- Available Max 2 Pogo Stick (order separately, MN: 0303325-P)



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**GREEN ENERGY CONCEPTS INC.**

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