



# HARSH ENVIRONMENTAL CHARGE *System*<sup>TM</sup>

## ENVIRONMENTAL PROTECTION PLUS POWER EFFICIENCY

Delivering the power and efficiency of the Diamond<sup>TM</sup> Charge Systems while securely protecting and sealing out environmental conditions.



California Energy  
Commission Compliant

NEMA 3R protective sealed cabinets for GECI **Blue Diamond<sup>TM</sup>**, **Gold Diamond<sup>TM</sup>**, **Green Diamond<sup>TM</sup>**, or **Black Diamond<sup>TM</sup>** Charger Technologies.

HEP (Harsh Environmental Protection) Diamond<sup>TM</sup> Chargers deliver the power and efficiency of the Diamond<sup>TM</sup> Charge Systems technology securely protecting and sealing out liquid, sand, dust or dirt in a resistant NEMA 3R cabinet.



GREEN ENERGY CONCEPTS, INC  
-Powering The Future-

Get all the power and power-efficiency of the GECI Blue, Red, Green, or Black Diamond™ Charger sealed in a NEMA 3R cabinet and you will always be assured of a safe environmental operating condition. Protect your investment from falling rain, sleet, snow and ice formation and run operations with less down-time for maintenance.

Applications: Poultry Manufacturing; Ground Support Services; Outdoor industries; any situation where environmental factors such as sand, dust, dirt, rain, sleet or ice are a concern.

**HEP DIAMOND™**  
**CHARGE**  
 Harsh Environmental Protection *Systems*



	HEP Blue Diamond™	HEP Gold Diamond™	HEP Green Diamond™	HEP Black Diamond™
Technology	High Frequency	IGBT Hybrid HF	Multi-Frequency	Controlled Flux
Applications	Very Demanding Applications	Very Demanding Applications	Very Demanding Applications	Two-Shift Applications
Input Voltage	Three Phase 208/240/480	Three Phase 208/240/480	Single Phase 120/240/480 Three Phase 208/240/480	Single Phase 120/240/480 Three Phase 208/240/480
Efficiency At Full Load	Three Phase >90%	Three Phase >90%	Single Phase >88% Three Phase >90%	Single Phase >88% Three Phase >90%
Power Factor	Three Phase >0.95	Three Phase >0.95	Single Phase >0.90 Three Phase >0.95	Single Phase >0.90 Three Phase >0.95
Output Voltage Range	12-80 Vdc	12-80 Vdc	12-80 Vdc	12-80 Vdc

## FEATURES

- Fully automatic
- Robust and reliable construction
- Sealed cabinet
- Protection rating IP54/NEMA 3R
- Automatic shutdown
- Real time clock
- CE certified, CSA listed
- Short circuit and overload protection
- Superior electrical efficiency
- Automatic battery recognition
- Alphanumeric LCD diagnostics display
- Compatible with Fleet Management web-based system software

Standard Models	Battery Type	Max Output Power (Kw)	Max Output Current (A)
24V - 200A	Lead Acid	6	200
48V - 200 A	Lead Acid	12	200
80V - 200A	Lead Acid	20	200
24V - 300A	Lead Acid	9	300
48V - 300 A	Lead Acid	18	300
80V - 300A	Lead Acid	30	300

Cabinet Sizes: 6-12kW: 19.69" x 17.32" x 35.43"  
 24-60kW: 31.50" x 19.69" x 62.99"

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ISO9002-94 Quality Control Certified

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