



UNIVERSAL GSE **FAST CHARGER**

The Skycharge™ advanced electric GSE charger solution combines state-of-the-art MOSFET soft-switching technology resulting in lower energy costs and the Skycharge™ Online platform, a very powerful and adaptable cloud-based system which can interface with other cloud-based systems or can be integrated with existing building management systems that are not cloud-based.

SPECIFICATIONS:

Dual Port Multi-voltage, multi-ampere hour DC fast charge system that automatically identifies the battery voltage, amp-hour rating, & battery chemistry. It also includes:

- Auto equalization tracking and implementation.
- Charges a typical GSE battery at .3C start-rate or higher.

Optional Single Port - SAE J1772 Level 2 "AC" Electric Vehicle Supply Equipment.

INPUT/OUTPUT

Input Voltage Options: 415/480/575VAC (+/- 15%), 3-phase, 60 Hz.

Output DC Power Options:

- **Simultaneous Dual Port Charging:** 10kW to 24kW per Port simultaneously (20kW to 48kW total output).
- **Sequencing Dual Port Charging:** 10kW to 24kW sequencing (10kW to 24kW total output).

Output AC power: 6.6kW to 19.2kW, SAE J1772 (EV - Optional Feature).

Output voltage: 18Vdc – 106Vdc.

BATTERY SENSING: Wireless Module

EFFICIENCY AND POWER QUALITY

Total Charge Efficiency: ~90%.

Power Factor: ≥ .85.

Power Quality: Meets IEC-61000-3-4 for Harmonic Distortion with source of 500kVA or greater.

DC OUTPUT CABLE: SEVERAL OPTIONS

GB/T 9-Pin DC Output Cable and Connector.

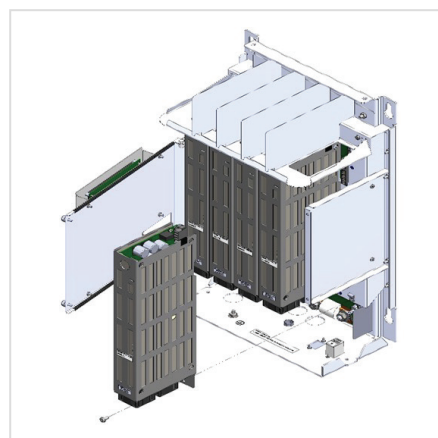
9-Pin BIW / Euro 320 / others as requested.

CHARGE THE FOLLOWING BATTERY CHEMISTRIES:

- Lead Acid (VRLA GEL or AGM, Flooded).
- Lithium (CAN Communication or Wireless Battery Monitor).

MORE SPECIFICATIONS:

- Integrated Revenue Grade kWhr metering.
- Remote Charge Port Option for tight locations.
- Temperature Operating Range: -40 °C to +60 ° C.
- Outdoor Enclosure with IP43 Rating, Ventilated for Outdoor Use, Free standing.
- CSA / UL / cUL Listed.



Individual Base Power Modules (BPUs)

POWER SWITCHING CORE TECHNOLOGY

Super High Frequency Switching Design

- Ultra High Efficiency.
- Common components.

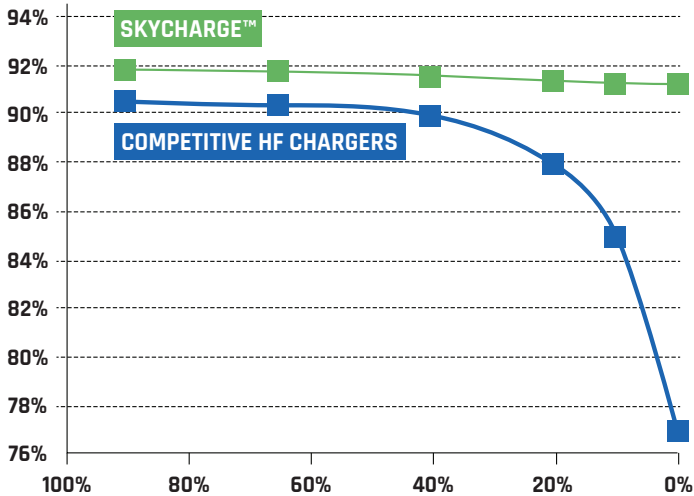
Modular 2.0kW Power Modules

- Built-in system redundancy.
 - Guaranteed "up time" reliability: If one fails, system continues to run.
- Easy to Remove & Replace: Plug & Play.

Cost Effective Design

- Based on volume production design

EFFICIENCY ADVANTAGE



THE HIGHEST EFFICIENCY:

The Ravin Energy Skycharge™ provides the highest efficiency by switching off individual power units as the current output drops, allowing the remaining BPUs to operate at max efficiency.

SKYCHARGE™ HV



HIGH VOLTAGE DC CHARGER

- High Voltage DC Charger for larger eGSE utilizing high voltage battery packs.
- Integrated into the Skycharge™ Cloud Platform.
- 480VAC/3-Ph or 208-220VAC 1-Ph.
- Voltage Output: 150-920 VDC.
- Current output 60 Amps.
- Higher Power Models available.

SKYCHARGE™ DUAL+ EGSE MONITORING & CONTROL SYSTEM

- Remote real-time monitoring
- Change charging parameters on the fly (two-way communication).
- Change AC Power Draw
- Generate Energy Use Reports
- Charger Fault Reporting & Notification
- Maintenance Mode Feature
- Remote Software Updates

