



High-Power Charging for Medium- and Heavy-Duty Electric Vehicles

Today's medium- and heavy-duty (M/HD) EVs can have battery capacities from 100kWh to over 600kWh. Low power "Level" 2 AC chargers cannot support most M/HD EV Fleet operation and duty cycles, which typically require high power chargers with over 50kW of DC output power.

At Rhombus, specialize in the design of high-power electronics and electrical systems with exceptional reliability and maintainability for the most demanding applications – we have deployed thousands units, with near-zero failure rates.



Solutions That Are Engineered for Medium and Heavy Duty EV Charging

Rhombus applies this high-power expertise to the design of our DC fast charging solutions for M/HD EV fleets such as school buses, public transit buses, delivery vehicles, refuse trucks, and drayage tractors. Our EV charging solutions are designed specifically for continuous operation at rated loads. These systems are also designed to support the unique needs of EV fleet operators, including the ability to remotely locate the small footprint EV charging dispenser up to 600 feet away from the charger PCS. This allows for optimal site placement in a high density vehicle yards when considering utility power feeds and high density parking.



Compatible Dispenser
RES-D2-CS20

| Model | RES-DCVC60-480 | |
|--|--|--|
| Power Profile | | |
| | | |
| AC Specifications (Power) | RES-DCVC60-480 | |
| Bi-directional capable? | No | |
| Rated Power: (kW/kVA) | 60 | |
| Utility Grid Voltage: (Vac) | 480-3P | |
| Max Rated Utility Current: (Aac) | 79A @ 480VAC (60 Hz) | |
| Wiring | 3 phase, WYE (L1, L2, L3, Neutral, Gnd.) or Delta (L1, L2, L3, Gnd.) | |
| Utility Grid Frequency: (Hz) | 60 | |
| Power Factor Range | 0.5-1.0 | |
| THD for Linear Loads | <5% | |
| Maximum Efficiency: | >95% | |
| Grid Isolation | Galvanic, Integrated | |
| DC Output | | |
| Maximum Power (kW) | 60 | |
| Voltage Operating Range: (Vdc) | 270 to 870 | |
| Maximum Current: (Adc) | 200A (Charging cable limited) | |
| Connector and Cable | CCS 1, Up to 8m (25ft) | |
| Energy Metering | | |
| AC Energy Meter (Option) / Req. for V2G | ±2% from 10% to full scale | |
| Mechanical | | |
| PCS Dimensions | 31.5"W x 24.5"D x 82"H | |
| PCS Weight | 1600 lbs. | |
| Environmental | | |
| Cooling | Air cooled | |
| Environmental Rating | NEMA 3R | |
| Operating Ambient Temp. | -20 °C to 45 °C (-4 to 113°F) | |
| Storage Temperature Range | -30 °C to 60 °C (-22 to 140°F) | |
| Humidity | 0 to 95% (non-condensing) | |
| Altitude | De-rated over 2,000m above sea level | |
| Communication & Control | | |
| Network Interface | Standard: Ethernet (Optional: Cellular 3G, 4G, LTE) | |
| External Control & Management | Rhombus VectorStat® for enhanced diagnostic and energy management. | |
| Certification, Safety, Compliance | | |
| Certifications | UL 2202 & CSA 22.2 | |
| Compatibility | | |
| PCS Compatible with Dispenser Model: | RES-D2-CS20 | |

All specifications are configuration dependent and subject to change
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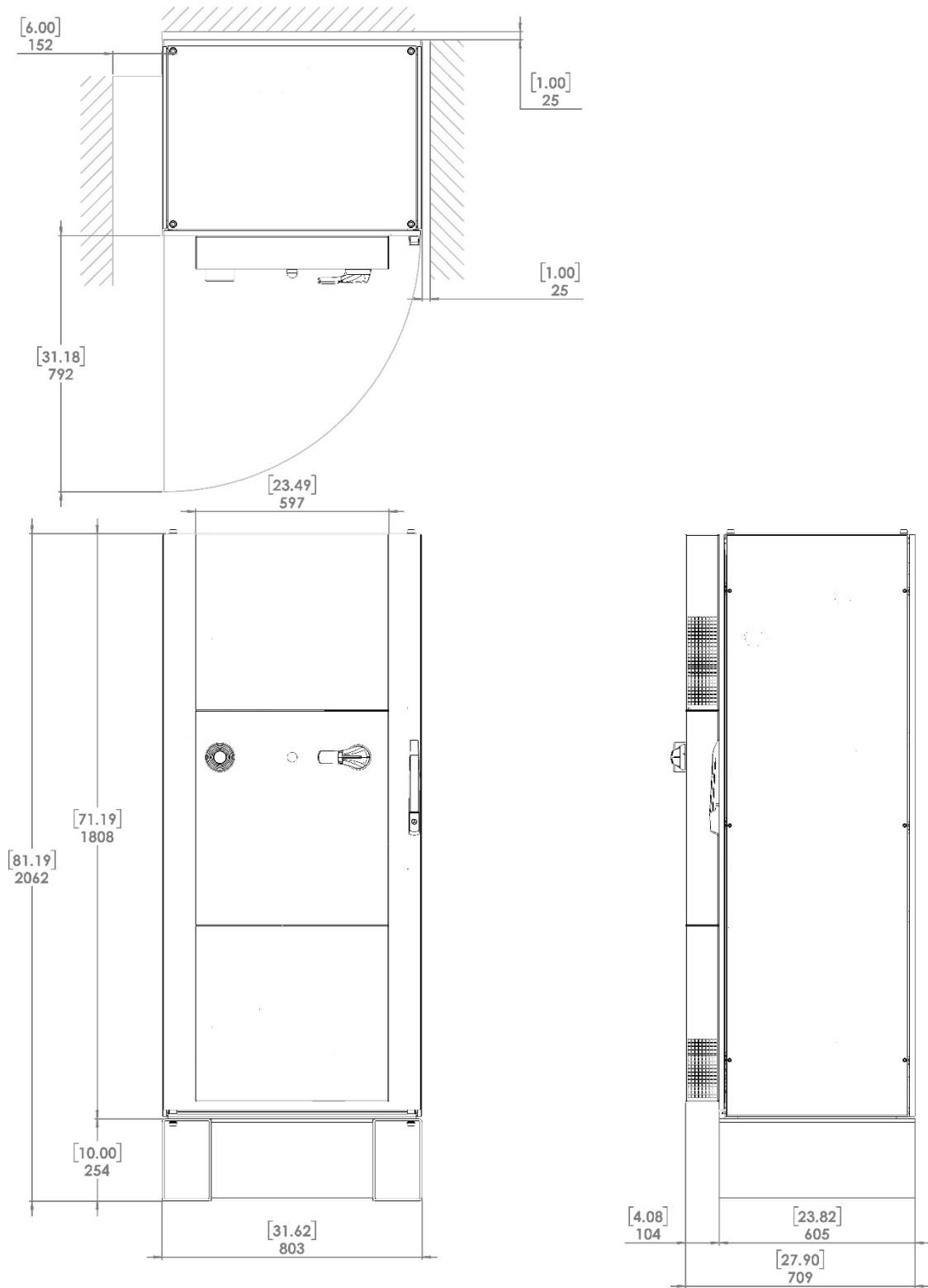
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Dimensions: Rhombus RES-DCVC60-480



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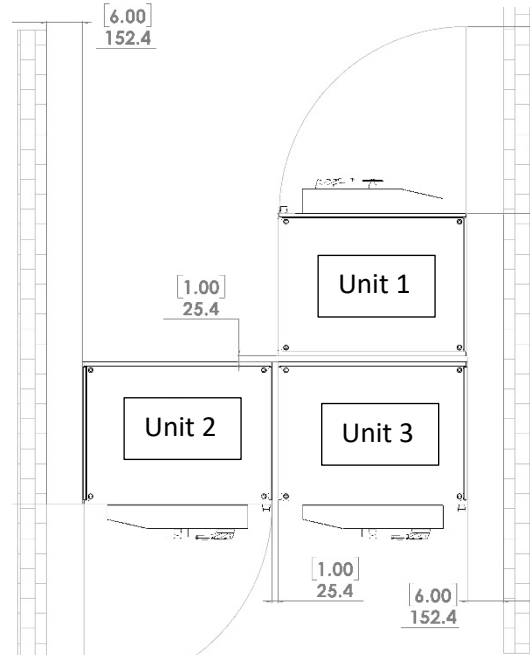
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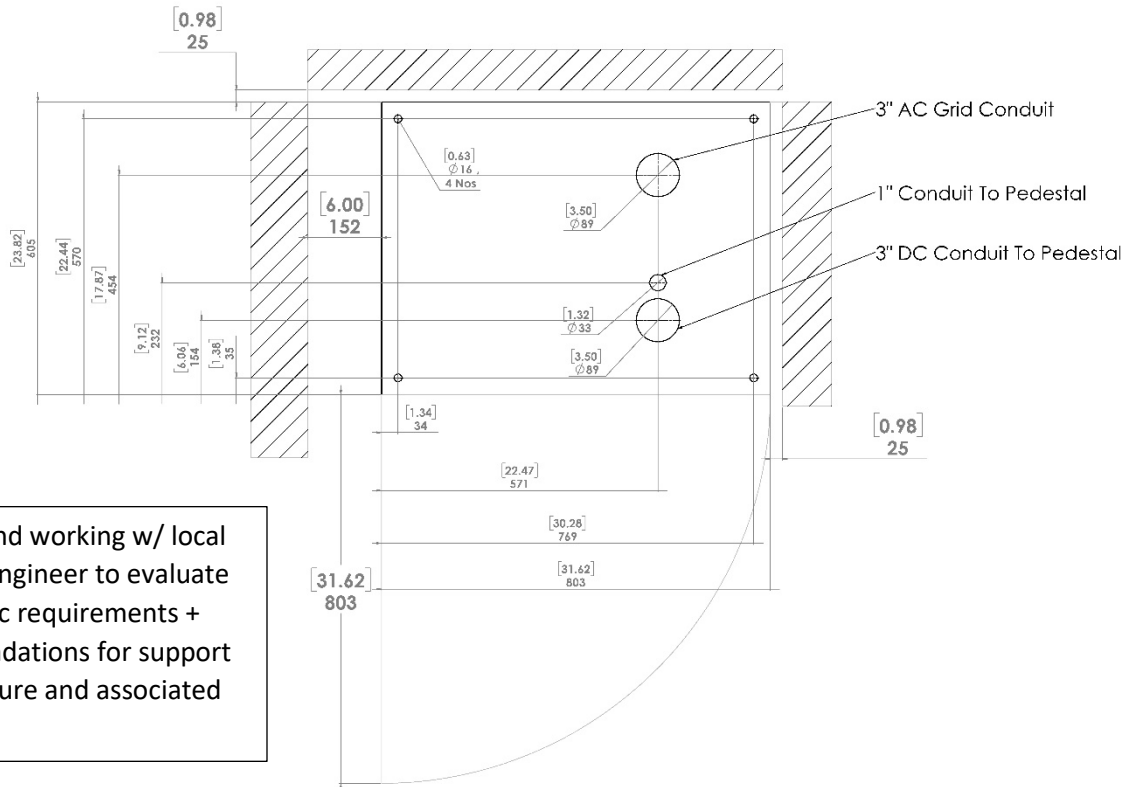


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Mounting and Conduit Installation Location Recommendations (RES-DCVC60-480)



Closest recommended unit to unit or unit to wall spacing.



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Supplemental FAQ's

| Model | | Rhombus RES-DCVC60-480 | | | |
|---------------------------|----------------|-------------------------------|------------------|---|-------------------------------------|
| Short Circuit (AC) | Test Condition | Ac Output Voltage | DC Input Voltage | Maximum output fault current (RMS / Peak) | Output fault current duration (Sec) |
| | Input | | | | |
| | Output L1-L2 | 483.23/ 481.75/ 482.02 | 450 | L1 - 515 Apk L2 - 518 Apk | 0.0039 |
| | Output L2-L3 | 483.92/ 482.43/ 482.63 | 450 | L2 - 532.45 L3 - 536.25 Apk | 0.0013 |
| | Output L3-G | 485.16/ 483.59/ 483.94 | 450 | L2 - 7.5 Apk | 0.16 |
| | Output L2-G | 486.42/ 484.78/ 485.22 | 450 | L2 - 21.873 Apk | 0.25 |

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