Exhibit H-4

Rhombus DC Fast Charger Wiring Guide

23AUG22

Applies to the following Rhombus Products

Dispenser

- RES-D2-CS20 & RES-D2-CS20-V2G

Inverter (PCS)

- RES-DCFC60-480 & RES-DCVC60-480-V2G (60kW)
- RES-DCVC125-480 & RES-DCVC125-480-V2G (125kW)

Contents

WIRE GUIDE QUICK REFERENCE

The following are recommended Wire Sizes, based on 35^{O}C Ambient temperatures, and cable in conduit. Follow NEC standards and use only copper conductors.

Cable Description	Minimum Size (In Conduit)	Maximum Size (In Conduit)	# of Conductors	Notes
60kW PCS (Zone 1) (RES-DCVC60-480, AC Grid (PVC conduit, typically ~3")				
480 VAC Grid	2 AWG	1 AWG	3	Brown, Orange, Yellow
Neutral	4 AWG	4 AWG	1	White/Grey
Ground/Earth	4 AWG	4 AWG	1	Green
125kW PCS (RES-DCVC125-480, AC Grid (PVC conduit, typically ~3")				
480 VAC Grid	3/0	4/0	3	Brown, Orange, Yellow
Neutral	1/0	1/0	1	White/Grey
Ground/Earth	4 AWG	4 AWG	1	Green
60kW and 125kW Charger Options DC Power (PVC conduit, typically ~3" Dia)				
High Voltage DC Power	3/0 (up to 400ft) 4/0 (500ft^2	373 MCM	2	1000V, 200A + Red/ - Black
High Voltage Sense +/-	18ga	16ga	2	1000V, + Red/ - Black
Ground/Earth	4 AWG	4 AWG	1	Green
60kW & 125kW PCS Charger Options Low Voltage / Communication (Recommend Steel conduit, typically ~ 1.25")				
15VDC (+/-)	18 ga.	10ga	2 + Shield	5A
24VDC (+/-)	20 ga.	12ga	2 + Shield	1A
CAN (H,L)	20ga.	12ga	2 + Shield	Shielded, Twisted Pair
EPO (In/Out)	20ga.	12ga	2 + Shield	1A
Modbus (Rx/Tx)	20ga.	12ga	2 + Shield	Shielded, Twisted Pair

Note: Evaluate wiring compliance w/ local rules and regulations before finalizing wire/cable selections.

Rhombus stock's limited quantities of the low voltage and communication wire recommendations below for purchase for smaller installations.

Wiring for High Voltage, High Power DC Power Connections

Note: High voltage wires must be separated from low voltage/communication wiring in 2 separate conduits a minimum of 18" apart.

High Voltage DC Power Cables

Recommended sourcing.

Distributor/Mfg	Description
Southwire Anixter General Cable IEWC	DLO cable, 2000 Volts (EPR/XL-CPE), UL RHH/RHW-2, 2000 V and C(UL) RW90 1000 V. Flexible, Oil-, Sunlight- and Ozone-Resistant, Flame-Retardant, -40C to 90C

These cables transfer high voltage, high current between the PCS and the dispenser.

High Voltage Sense

Recommended sourcing.

Distributor/Mfg	Model/PN	Wire Gauge	Description
Southwire	TC-ER E75755	18ga	3 + Shield & Drain wire.

These wires measure voltage at the dispenser to compensate for resistance (voltage drop) between the PCS and the dispenser.

Wiring for Low Voltage and Communication Connections

(Note: High voltage wires must be separated from low voltage/communication wiring to ensure for reliable communication. High voltage cables/wires/grounds in one conduit and low voltage/communication wires in a second conduit.)

Wire gauge depends on wire length between inverter and dispenser. See lookup table at end of this document for reference.

Wiring for Modbus Communication

Recommended sourcing.

Distributor/Mfg	Model/PN	Wire Gauge	Conductors	Description
Alpha Wire	5430/2	18	2	600V AWM/UL1015, 18 AWG, -30 to 105C

These wires provide diagnostic and supplemental information between the PCS and the dispenser.

- Communication/Control Cable
- 18 AWG, 16AWG or 14AWG, Copper Annealed Tinned
- Twisted Pair
- Shielded with tinned drain wire
- Impedance Range: 100 ohms to 200 ohms
- Capacitance between conductors: <30pF per foot
- Capacitance between conductors and shield: <60pF per foot
- Propagation Velocity: >=60%
- 300V or 600V
- Outer Jacket: PVC
- UL Min. Temp Rating: 75C Dry

Other web references: (https://ctlsys.com/support/rs-485_cables_for_bacnet_and_modbus/)

Sourcing recommendation. (Note

Wiring for CAN Communication

Recommended sourcing.

Distributor/Mfg	Model/PN	Wire Gauge	Conductors	Description
Champlain	23-00065	18	2	EXRAD EXRAD CAN-Bus Cable, 18 AWG, Twisted, Shielded Pair

These wires provide primary power control communication between the PCS and the dispenser.

Wiring for EPO, 15V, 24VDC

Recommended sourcing.

Distributor/Mfg	Model/PN	Wire Gauge	Conductors	Description
Anixter	2A-1402S	14	2	14-2C STR BC VN TRAY CBL THHN CDRS PVC-NYL FOIL SHD, PVC JKT 600V 90C UL TC E2

UL Type TC or TC-ER (TC:Tray Cable or TC-ER: Tray Cable - Extended Run).

- 90degC dry, 75degC wet
- 150V, 300V or 600V insulation rating
- 2 conductor, copper
- Shielded
- 12 AWG to 18AWG

TC-ER may be available with 2 conductors depending on manufacturer but typically has 3 or more conductors (for strength) so extra conductor would not be used.

Wiring Sizing Lookup

Modbus and CAN wires may also be used for EPO, 15V and 24V power/signal wiring to reduce # of wire types sourced. Twisted/shielded Modbus, CAN and EPO wires required to reduce possible electrical interference and improve system operational reliability. Consider pull strength of wire for longer cable runs.

Wire Length vs. Gauge	**Wire Gauge**			
(PCS to Dispenser)	**15V**	**24V**	**Modbus or EPO**	**CAN or EPO**
Max Resistance / V drop	**1.2Ω / 3V**	**24Ω / 3V**		
0-50 ft	12-18ga	12-20ga	12-20ga	12-20ga
50-100 ft	12-16ga	12-20ga	12-20ga	12-20ga
100-150 ft	12-14ga	12-20ga	12-20ga	12-20ga
150-200 ft	12-14ga	12-20ga	12-20ga	12-20ga
200-250 ft	12ga	12-20ga	12-20ga	12-20ga
250-300 ft	12ga	12-20ga	12-20ga	12-20ga
300-350 ft	12ga	12-20ga	12-20ga	12-20ga
350-400 ft	10ga	12-20ga	12-20ga	12-20ga
400-450 ft	10ga	12-20ga	12-20ga	12-20ga
450-500 ft	10ga	12-20ga	12-20ga	12-20ga
500- ft	10ga	12-20ga	12-20ga	12-20ga