REFERENCE DRAWING	REV

AURORA SUN DRAWING TABLE

DRAWING NUMBER	DRAWING TITLE	REV	REVISION DESCRIPTION
63353 - 1-1	2500DQKAN GENSET OUTLINE	0	
63353 - 1-2	2500DQKAN GENSET OUTLINE	0	
63353 - 7 - 1	PCC3.3 CONTROL BOX LAYOUT	0	
63353 - 7 - 2	PCC3.3 CONTROL WIRING DIAGRAM	0	
63353 - 7 - 3	PCC3.3 AUX PANELS	0	
63353 - 9	2500DQKAN AC INTERCONNECT	0	
63353 - 10	2500DQKAN HEATER INTERFACE	0	
63353 - 11	PCC3.3 FIELD CONNECTION	0	
63353 - 32	AC WIRING & COMPONENTS	0	

ENER-PHASE SOLUTIONS LTD
109-4615 112th Ave SE
Calgary, AB T2C 5J3

- ☐ REVIEWED
- ☑ REVIEWED AS NOTED
- ☐ REVISE AND RESUBMIT
- ☐ REJECTED

Review is only for general conformance with the design concept of the Project and the information given in the Contract Documents. Contractor and/or Manufacturer is responsible for dimensions to be confirmed and correlated at the job site. This review does not modify their duty to comply with the Contract Documents.

BY Scott MacDonald **DATE** 4/14/2019
E-P NO. 2018-024
COMMENT

REVISION

REV	DATE	BY	CH	DESCRIPTION
A	Feb 27, 2019	TH	BR	FOR APPROVAL

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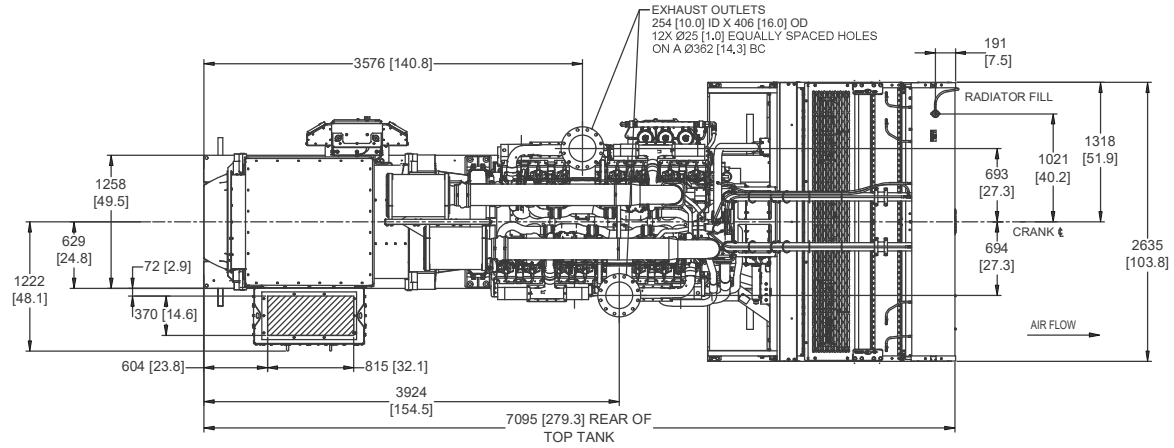
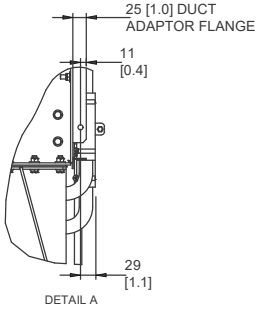
QUOTED BY:	K.LEPP	CHECK BY:	B.RANSETH
DRAWN BY:	T.HOPKINSON	SCALE:	N/A

Cummins® Sales and Service
WESTERN CANADA

PROJECT NAME:	AURORA SUN
CUSTOMER NAME:	DAWSON WALLACE CONST. LTD
DRAWING TITLE:	2500DQKAN AND NONE COVER SHEET
DRAWING NO.:	63353- 0
SHEET:	1 OF 1
BRANCH:	EDMONTON

REFERENCE DRAWING	REV
A054H274_SHT-2	B

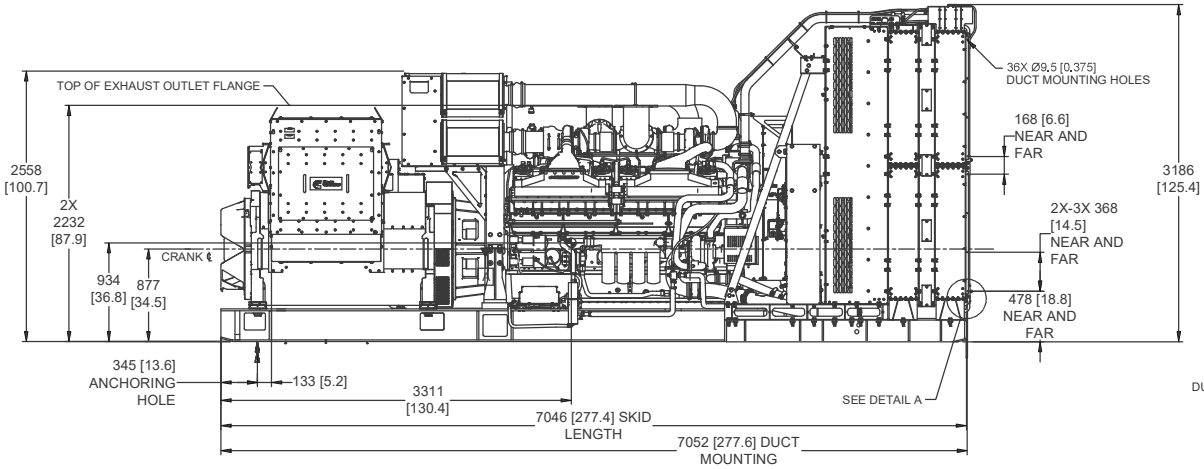


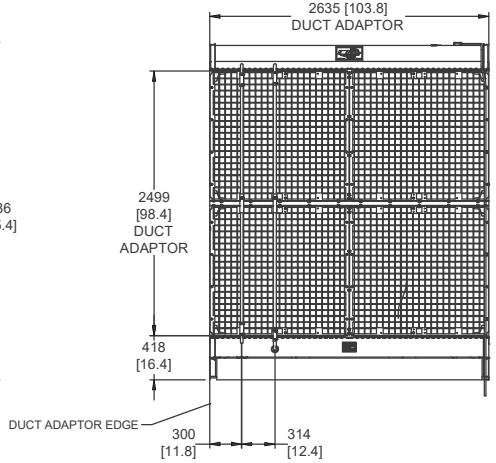


NOTES:

1. DIMENSIONS SHOWN IN [ ] ARE IN INCHES.
2. ALL DIMENSIONS ARE REFERENCE BASED ON CAD DATA.
3. PROVIDE FLEXIBLE CONDUIT TO CONTROL BOX.
4. GENSET SHIPPED FILLED WITH OIL.
5. SUPPLIED FUEL HOSE:
   - 5.1. FUEL INLET HOSE 25 [1] X 1270 [50] LONG WITH 1-11 1/2 NPT EXTERNAL FITTING.
   - 5.2. FUEL OUTLET HOSE 16 [.6] X 1270 [50] LONG WITH 3/4-14 NPT EXTERNAL FITTING.
6. COMMON REFERENCE POINT ON GENSET SKID (⟶) POINTS TO ANCHORING HOLE ON SKID. (63353-1-2)

TABULATION				
GEN FRAME SIZE	GENSET WEIGHT (DRY)		GENSET WEIGHT (WET)	
	KGS	LBS	KGS	LBS
HVSI804W2	20590	45394	21588	47594





REVISION				
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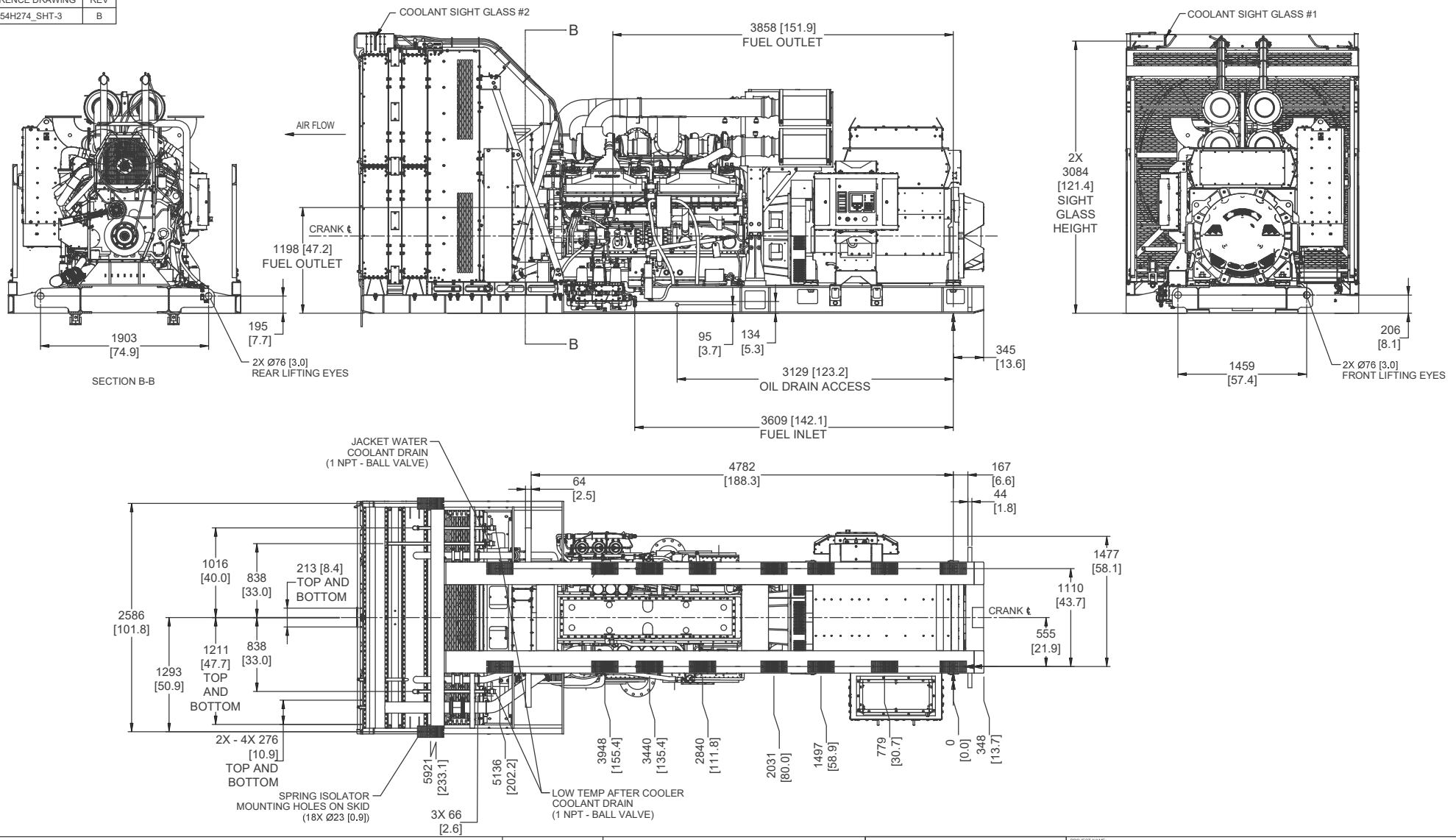
QUOTED BY:	K.LEPP	CHECK BY:	B.RANSETH
DRAWN BY:	T.HOPKINSON	SCALE:	N/A

Cummins® **Sales and Service**

WESTERN CANADA

PROJECT NAME:	AURORA SUN
CUSTOMER NAME:	DAWSON WALLACE CONST. LTD
DRAWING TITLE:	2500DQKAN GENSET OUTLINE
DRAWING NO.:	63353- 1-1
SHEET:	1 OF 2
BRANCH:	EDMONTON

REFERENCE DRAWING	REV
A054H274_SHT-3	B



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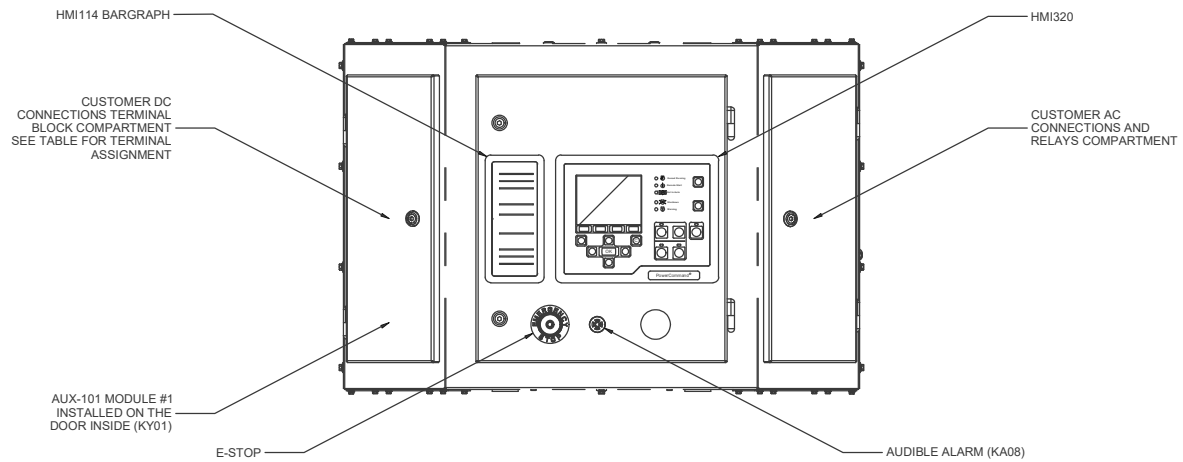
QUOTED BY:	K.LEPP	CHECK BY:	B.RANSETH
DRAWN BY:	T.HOPKINSON	SCALE:	N/A

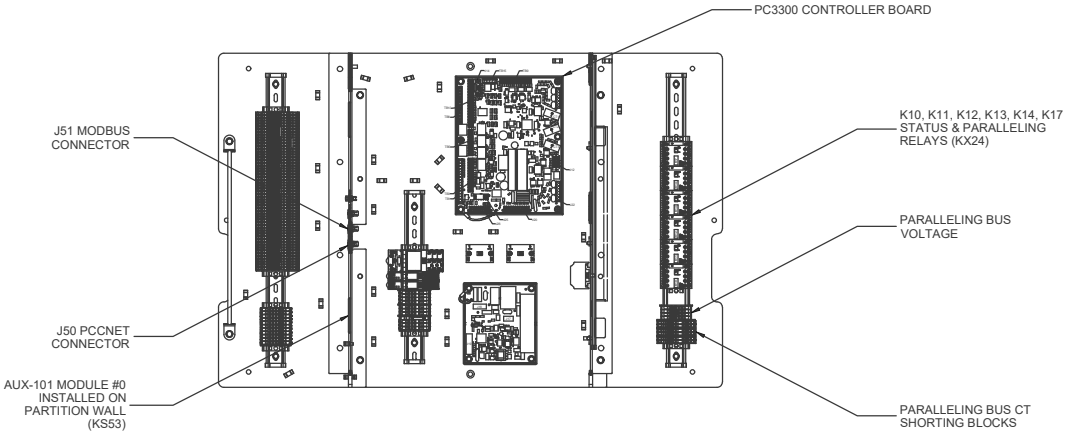
Cummins® Sales and Service

WESTERN CANADA

PROJECT NAME:	AURORA SUN
CUSTOMER NAME:	DAWSON WALLACE CONST. LTD
DRAWING TITLE:	2500DQKAN GENSET OUTLINE
DRAWING NO.:	63353- 1-2
SHEET:	2 OF 2
BRANCH:	EDMONTON

REFERENCE DRAWING	REV





NOTES:

1. FOR FULL DETAILS OF PCC3.3 INTERNAL WIRING, SEE INSTALLATION MANUAL.
2. INPUTS ARE ACTIVATED BY A GROUNDED SIGNAL.
3. CUSTOMER OUTPUT #1 AND #2 RELAY RATINGS: 3.5A @ 30VDC.
4. RELAY DRIVER OUTPUTS RATING: 250mA @ 30VDC; MAXIMUM INRUSH: 3A; LEAKAGE CURRENT (OFF-STATE): 100uA. RELAY DRIVER OUTPUT PROVIDES A PATH TO GROUND IN ACTIVE STATE.
5. FOR REMOTE E-STOP USE TWO N/C CONTACTS, ONE CONNECTED TO CTBE-2 & CTBE-4 AND ANOTHER TO CTB18-2 & CTB19-2. REMOVE JUMPERS BETWEEN THESE TERMINALS.
6. FOR COMMUNICATION PLUG-IN CONNECTORS USE THE FOLLOWING PHOENIX CONTACT P/N OR EQUIVALENT:
   J51 MODBUS: 1778014 MSTB2,5/5-STF-5,08;
   J50 PCCNET: 1777992 MSTB2,5/3-STF-5,08.

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QUOTED BY:	K.LEPP	CHECK BY:	B.RANSETH
DRAWN BY:	T.HOPKINSON	SCALE:	N/A

Cummins® Sales and Service

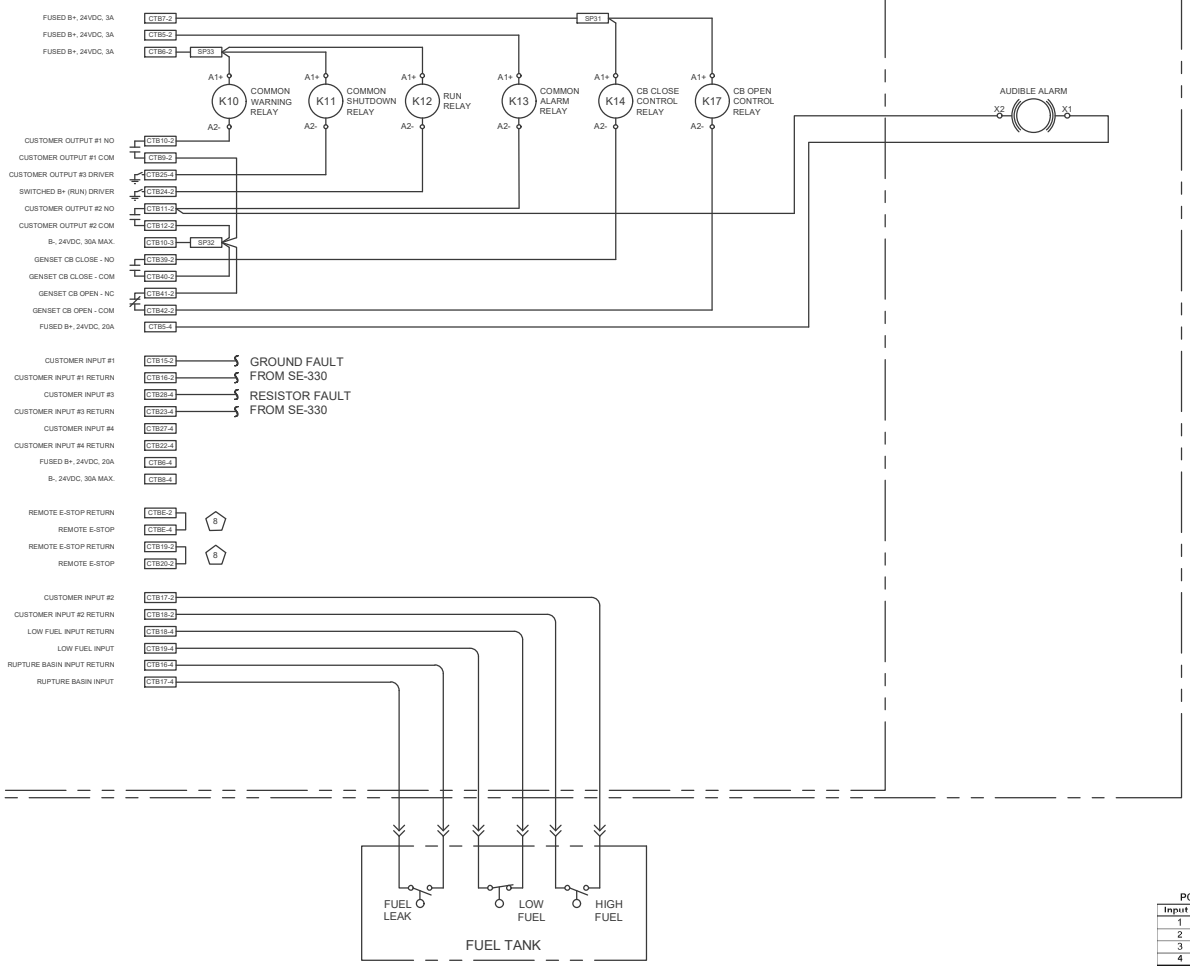
WESTERN CANADA

PROJECT NAME:	AURORA SUN
CUSTOMER NAME:	DAWSON WALLACE CONST. LTD
DRAWING TITLE:	2500DQKAN PCC3.3 CONTROL BOX LAYOUT
DRAWING NO.:	63353- 7-1
SHEET:	1 OF 3
BRANCH:	EDMONTON

REFERENCE DRAWING	REV

CUMMINS GENERATOR SET WITH PCC 3.3 CONTROL

CONTROL INTERCONNECTION BOX



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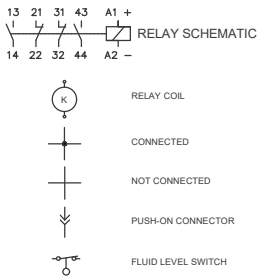

NOTES:

1. SEE PCC3.3 CONTROLLER LAYOUT DRAWINGS FOR LOCATION OF THE AUXILIARY RELAYS.
2. K10, K11, K12, K13, K14 & K17 RELAYS CONTACTS RATED: 2.5 AMPS AT 24VDC, 6 AMPS AT 120VAC AS PER CSA C22.2 NO.14.
3. ALL RELAYS SHOWN IN RESET OR DE-ENERGIZED POSITION.
4. A GROUNDED SIGNAL IS REQUIRED TO ACTIVATE CUSTOMER INPUTS .
6. INTERCONNECTION WIRING TO BE 14AWG STRANDED WIRE MINIMUM. AC AND DC CONTROL WIRES TO BE RUN IN SEPARATE CONDUITS.
7. FOR FULL DETAILS OF PCC3.3 SEE GENSET MANUAL.
8. FOR REMOTE E-STOP USE TWO N/C CONTACTS, ONE CONNECTED TO CTBE-2 & CTBE-4 AND ANOTHER TO CTB19-2 & CTB20-2. REMOVE JUMPERS BETWEEN THESE TERMINALS.
9. FINAL CONFIGURATION OF THE INPUTS AND OUTPUTS RELAY TO BE DETERMINED BY CUSTOMER.

PCC3.3 CUSTOMER INPUTS CONFIGURATION TABLE

Input #	Label	Effect	Code
1	GROUND FAULT	SHUTDOWN	1573
2	HIGH FUEL LEVEL	WARNING	1312
3	RESISTOR FAULT	SHUTDOWN	1317
4	SPARE	N/A	1318

PCC3.3 CUSTOMER OUTPUTS CONFIGURATION TABLE

Output #	Label	Effect	Code
1	COMMON WARNING	EVENT	1540
2	COMMON ALARM	EVENT	1483
3	COMMON SHUTDOWN	EVENT	1541
4	READY TO LOAD	EVENT	1495

REVISION

REV	DATE	BY	CH	DESCRIPTION
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QUOTED BY:	K.LEPP	CHECK BY:	B.RANSETH
DRAWN BY:	T.HOPKINSON	SCALE:	N/A

Cummins® **Sales and Service**

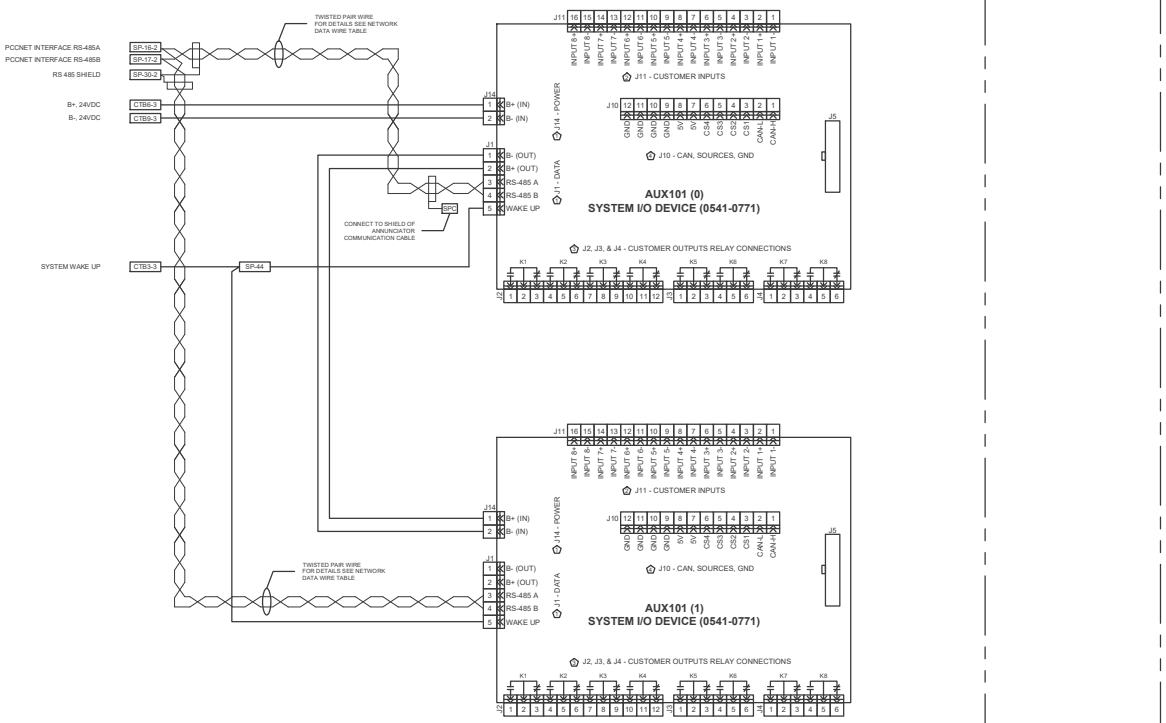
WESTERN CANADA

PROJECT NAME:	AURORA SUN
CUSTOMER NAME:	DAWSON WALLACE CONST. LTD
DRAWING TITLE:	2500DQKAN PCC3.3 CONTROL WIRING DIAGRAM
DRAWING NO.:	63353- 7-2
SHEET:	2 OF 3
BRANCH:	EDMONTON

REFERENCE DRAWING	REV

CUMMINS GENERATOR SET WITH PCC 3.3 CONTROL

CONTROL INTERCONNECTION BOX



LEGEND:

- C - FORM CONTACTS
- CONNECTED
- NOT CONNECTED
- PHOENIX PUSH-ON CONNECTORS

NOTES:

1. DATA & POWER CONNECTION, REFER TO POWERCOMMAND NETWORK INSTALLATION AND OPERATION MANUAL.
2. CUSTOMER INPUTS
   - 2.1 TYPE: DISCRETE OR ANALOG
   - 2.2 QTY: 8
   - 2.3 MAX VOLTAGE 24VDC (INPUTS 1-6)
   - 2.4 MAX VOLTAGE 40VDC (INPUTS 7-8)
   - 2.5 DIGITAL INPUTS NEED THE (-) INPUT GROUNDED. USE JUMPERS TO J-10 TERMINALS # 9, 10, 11 OR 12.
   - 2.6 RTD SENDERS CAN ONLY BE USED ON INPUTS 3 - 6.
3. OUTPUT RELAYS
   - 3.1 TYPE: NON-LATCHING
   - 3.2 QTY: 8
   - 3.3 CONTACTS:
     - 3.3.1 1 FORM C
     - 3.3.2 250VAC OR 30VDC
     - 3.3.3 NC CONTACT: 3AMPS (AUX101)
     - 3.3.4 NO CONTACT: 5AMPS (AUX101)
   - 3.4 ALL RELAYS SHOWN IN RESET OR DE-ENERGIZED POSITION. DO NOT MAINTAIN THE LAST STATE WHEN POWER IS LOST.
   - 3.5 OUTPUTS ARE CONTROLLED VIA THE NETWORK.
   - 3.6 INDIVIDUAL GREEN LEDS WILL INDICATE ENERGIZED RELAYS.
4. AUX101 CUSTOMER OUTPUTS
   - 4.1 CURRENT SOURCES = J10-3,4,5,6 (1mA - 20mA).
     - 4.1.1 CS1 IS USED FOR INPUT 3 ONLY.
     - 4.1.2 CS2 IS USED FOR INPUT 4 ONLY.
     - 4.1.3 CS3 IS USED FOR INPUT 5 ONLY.
     - 4.1.4 CS3 IS USED FOR INPUT 5 ONLY.
   - 4.2 VOLTAGE SOURCES = J10-7,8 (5VDC, 20mA).
   - 4.3 GROUND = J10-9,10,11,12.
5. FINAL CONFIGURATION OF THE INPUTS AND OUTPUTS RELAY TO BE DETERMINED BY CUSTOMER.

AUX-101 (0) INPUTS CONFIGURATION TABLE

Input #	Label	Effect	Code
1	SPARE	N/A	5182
2	SPARE	N/A	2621
3	SPARE	N/A	2622
4	SPARE	N/A	2623
5	SPARE	N/A	2624
6	SPARE	N/A	2625
7	SPARE	N/A	2626
8	SPARE	N/A	2627

AUX-101 (0) OUTPUT RELAYS CONFIGURATION TABLE

Output #	Label	Effect	Code
1	LOW OIL PRESSURE	SHUTDOWN	415
2	HIGH COOLANT TEMP	SHUTDOWN	151
3	CHARGER FAILURE	WARNING	2678
4	LOW BATT VOLTS	WARNING	441
5	OVERSPEED	SHUTDOWN	234
6	FAIL TO START	SHUTDOWN	359
7	NOT IN AUTO	EVENT	1463
8	READY TO LOAD	EVENT	1465

AUX-101 (1) INPUTS CONFIGURATION TABLE

Input #	Label	Effect	Code
1	SPARE	N/A	5182
2	SPARE	N/A	2621
3	SPARE	N/A	2622
4	SPARE	N/A	2623
5	SPARE	N/A	2624
6	SPARE	N/A	2625
7	SPARE	N/A	2626
8	SPARE	N/A	2627

AUX-101 (1) OUTPUT RELAYS CONFIGURATION TABLE

Output #	Label	Effect	Code
1	SPARE	N/A	N/A
2	SPARE	N/A	N/A
3	SPARE	N/A	N/A
4	SPARE	N/A	N/A
5	SPARE	N/A	N/A
6	SPARE	N/A	N/A
7	SPARE	N/A	N/A
8	SPARE	N/A	N/A

PCCNET DATA WIRE

TABLE 1

USE BELDEN 9729 SHIELDED TWISTED PAIR
OR
EQUIVALENT CABLE,
FOR A LENGTH OF 4000 FT. (1219 METRES) MAX.

CONNECT THE CABLE SHIELD TO THE GROUND AT ONE END OF THE CABLE

REVISION

REV	DATE	BY	CH	DESCRIPTION
A	Feb 27, 2019	TH	BR	FOR APPROVAL

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QUOTED BY:	CHECK BY:
K.LEPP	B.RANSETH
DRAWN BY:	SCALE:
T.HOPKINSON	N/A

Cummins® **Sales and Service**

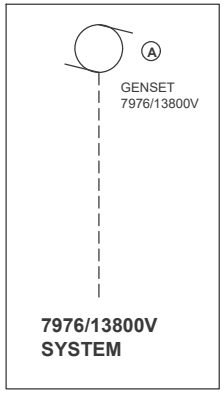
WESTERN CANADA

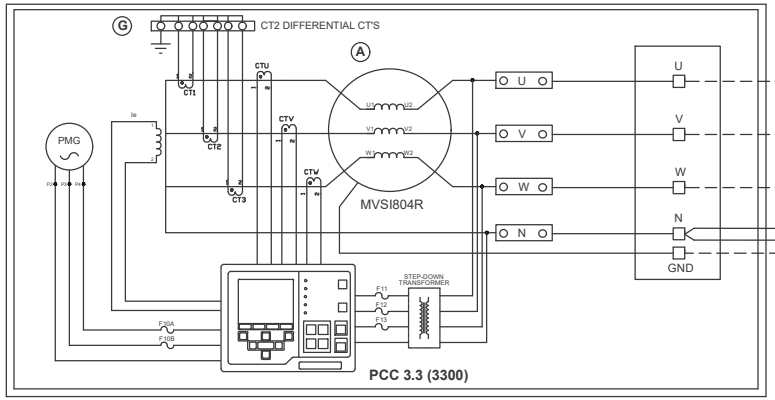
PROJECT NAME:	AURORA SUN
CUSTOMER NAME:	DAWSON WALLACE CONST. LTD
DRAWING TITLE:	2500DQKAN PCC3.3 AUX PANELS
DRAWING NO.:	63353- 7-3
SHEET:	3 OF 3
BRANCH:	EDMONTON

REFERENCE DRAWING	REV

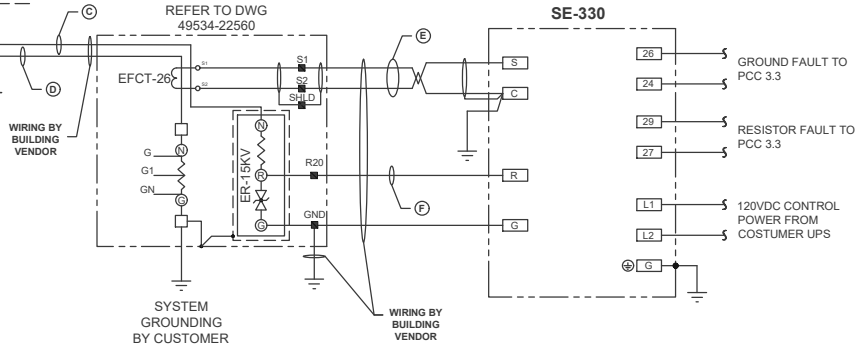
LEGEND:

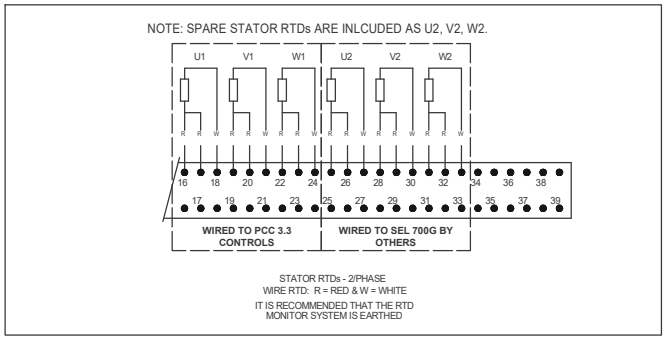
A. MVSI804R ALTERNATOR, 2500KW, 2400/4160VAC, 60HZ, 3 PHASE.
C. NEUTRAL SENSING RESISTOR TO ALTERNATOR NEUTRAL CONDUCTOR, TEW, 1 X #14.
D. NEUTRAL GROUNDING RESISTOR TO ALTERNATOR NEUTRAL CONDUCTOR, TEW, 1 X #8.
E. NEUTRAL GROUNDING RESISTOR EFCT-1 CABLE, 2 X #22, TWISTED, SHIELD RECOMMENDED.
F. NEUTRAL SENSING RESISTOR TO SE-330 MONITORING RELAY CONDUCTOR, TEW, 1 X #16.
G. DIFFERENTIAL CT FOR CUSTOMER USE. SHORTENED FOR SAFETY REASONS
H. — — — — — WIRING BY COSTUMER





2500 DQLC STANDBY GENERATOR
7976/13800VAC, 60HZ, 3 PHASE, 4 WIRE





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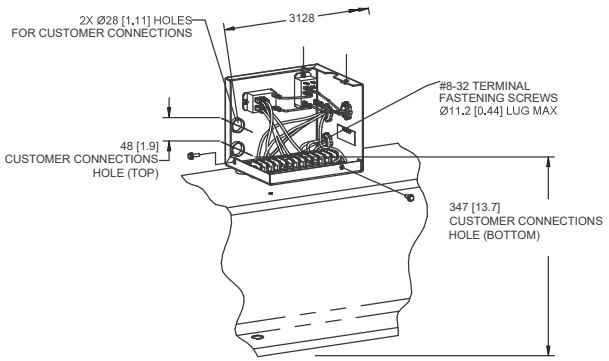
Cummins® Sales and Service

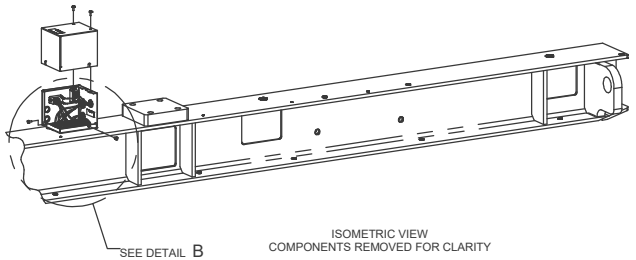
WESTERN CANADA

QUOTED BY:	K.LEPP
CHECK BY:	B.RANSETH
DRAWN BY:	T.HOPKINSON
SCALE:	N/A

PROJECT NAME:	AURORA SUN
CUSTOMER NAME:	DAWSON WALLACE CONST. LTD
DRAWING TITLE:	2500DQKAN AC INTERCONNECT
DRAWING NO.:	63353- 9
SHEET:	1 OF 1
BRANCH:	EDMONTON

REFERENCE DRAWING	REV
A046E742_SHT-1	C



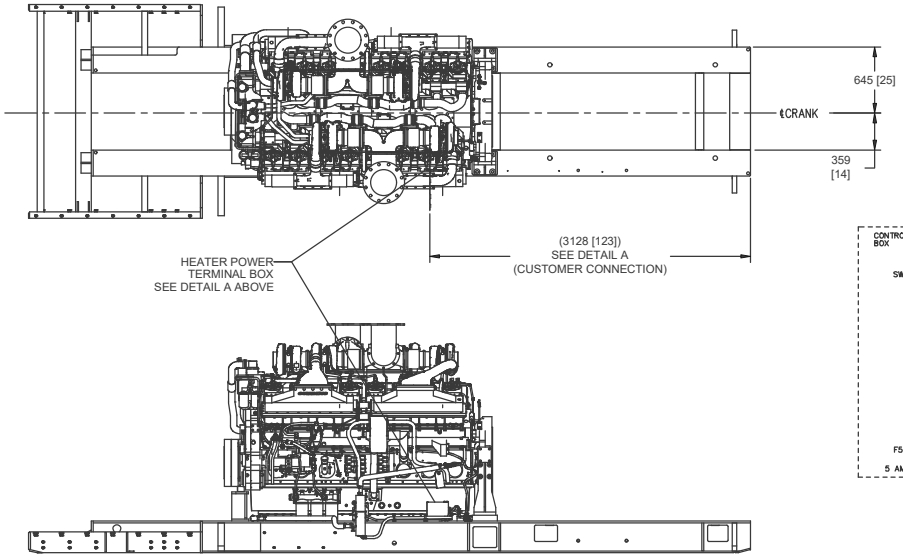


ISOMETRIC VIEW
COMPONENTS REMOVED FOR CLARITY

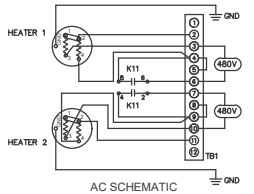
NOTES:

1. DIMENSIONS IN [ ] ARE INCHES.
2. ALL DIMENSIONS ARE REFERENCE BASED ON CAD DATA.
3. THE HEATER CONTROL RELAY DRAWS 83mA OF CURRENT WHEN THE HEATERS ARE UNPOWERED.
   3.1 HEATERS ARE NOT POWERED WHEN THE ENGINE HAS REACHED DESIGN TEMPERATURE OR
   3.2 THE ENGINE IS RUNNING.
4. JUMPERS ARE FACTORY INSTALLED IN THE 480 VOLT CONFIGURATION FOR 240 - 208 VOLT MOVE JUMPERS AS SHOWN
5. A BATTERY CHARGER IS REQUIRED TO PREVENT BATTERY DISCHARGE.

DETAIL B
HEATER POWER TERMINAL BOX
SCALE 1:4

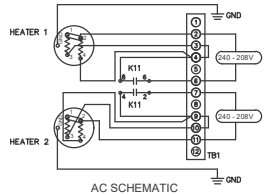


4 480 VOLT CONNECTION

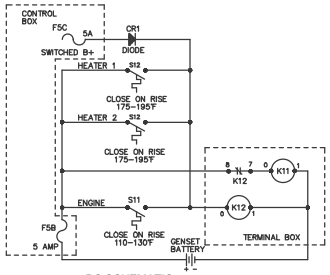


AC SCHEMATIC

4 240 - 208 VOLT CONNECTION



AC SCHEMATIC



DC SCHEMATIC

HEATER AMPERAGE TABLE			
SINGLE PHASE HEATER VOLTAGE	FEATURE CODE H556 TWO HEATERS		
	HEATER AMPS	TOTAL AMPS	TOTAL WATTS
208	18.0	36.0	7485
240	20.8	41.6	9980
480	10.4	20.8	9980

REVISION				
REV	DATE	BY	CH	DESCRIPTION
A	Feb 27, 2019	TH	BR	FOR APPROVAL

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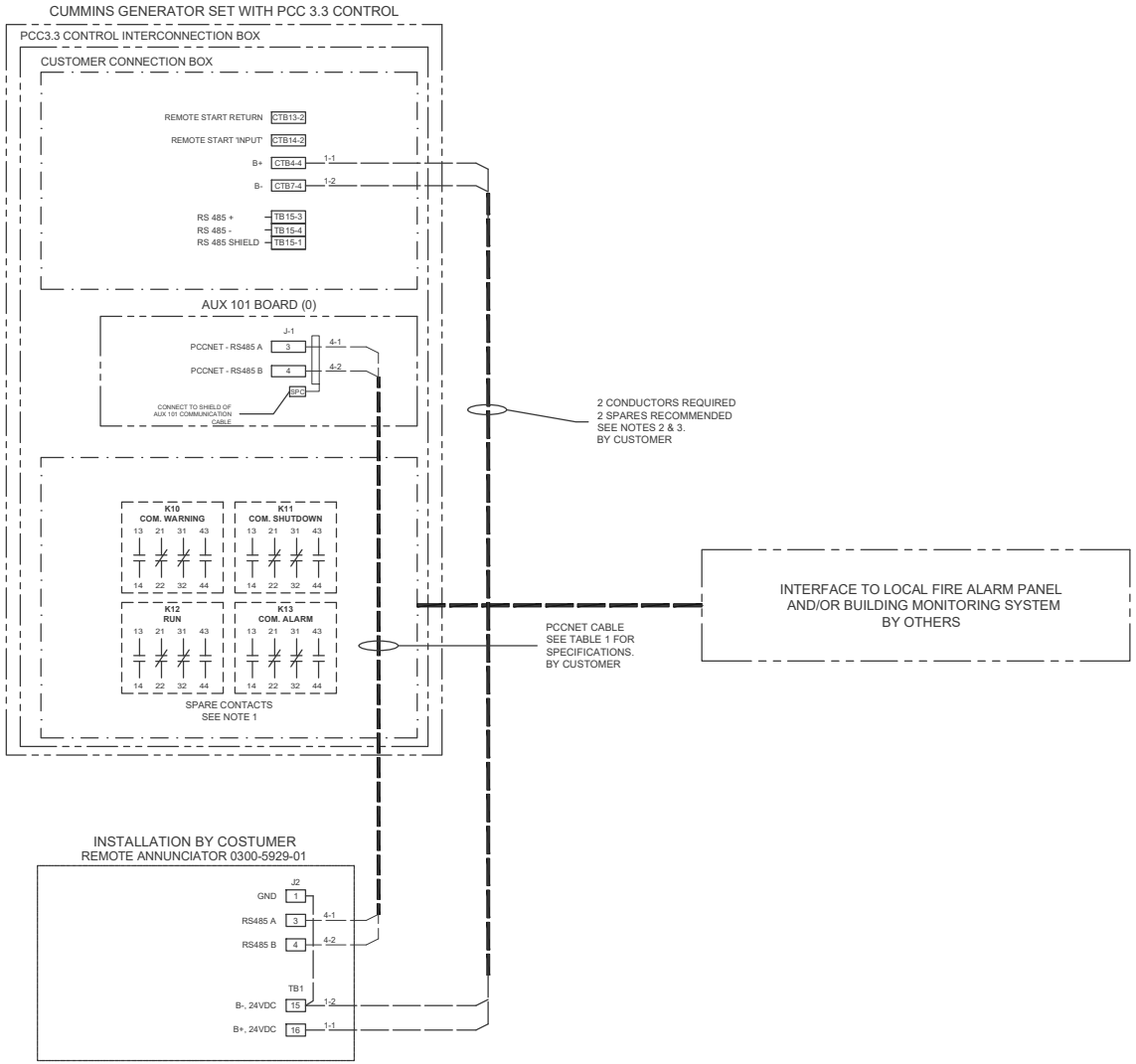
Cummins® Sales and Service

WESTERN CANADA

QUOTED BY:	K.LEPP
CHECK BY:	B.RANSETH
DRAWN BY:	T.HOPKINSON
SCALE:	N/A

PROJECT NAME:	AURORA SUN
CUSTOMER NAME:	DAWSON WALLACE CONST. LTD
DRAWING TITLE:	2500DQKAN HEATER INTERFACE
DRAWING NO.:	63353- 10
SHEET:	1 OF 1
BRANCH:	EDMONTON

REFERENCE DRAWING	REV



NOTES:

1. AUXILIARY RELAYS CONTACTS RATED: 2.5A @ 24VDC, 6A @ 120VAC AS PER CSA C22.2 NO.14.
2. DO NOT RUN CONTROL WIRING THROUGH POWER CABLE CONDUIT OR RACEWAY.
3. DO NOT USE SINGLE CORE WIRE FOR WIRING BETWEEN CONTROL PANEL AND DEVICES. ALL CONTROL WIRES SHOULD BE TEW OR TWH TYPE STRANDED WIRE. RECOMMENDED WIRES SIZE:
   - #16 UP TO 1000 FT. MAXIMUM;
   - #14 UP TO 1600 FT. MAXIMUM;
   - #12 UP TO 2400 FT. MAXIMUM;
   - #10 UP TO 4000 FT. MAXIMUM.
4. REFER TO DRAWING # 63353-7-1 & 63353-7-2 FOR ADDITIONAL WIRING DETAILS.
5. USE TWISTED SHIELDED PAIR CABLE (# 24AWG OR LARGER) FOR MODBUS CABLE (BELDEN 3106A OR EQUIVALENT).
6. —— —— WIRING BY CUSTOMER.

PCCNET DATA WIRE
TABLE 1
USE BELDEN 9729 SHIELDED TWISTED PAIR OR EQUIVALENT CABLE. FOR A LENGTH OF 4000 FT. (1219 METRES) MAX.
CONNECT THE CABLE SHIELD TO THE GROUND AT ONE END OF THE CABLE

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QUOTED BY:	K.LEPP	CHECK BY:	B.RANSETH
DRAWN BY:	T.HOPKINSON	SCALE:	N/A

Cummins® Sales and Service

WESTERN CANADA

PROJECT NAME:	AURORA SUN
CUSTOMER NAME:	DAWSON WALLACE CONST. LTD
DRAWING TITLE:	2500DQKAN - PCC3.3 FIELD CONNECTION
DRAWING NO.:	63353- 11
SHEET:	1 OF 1
BRANCH:	EDMONTON

REFERENCE DRAWING	REV

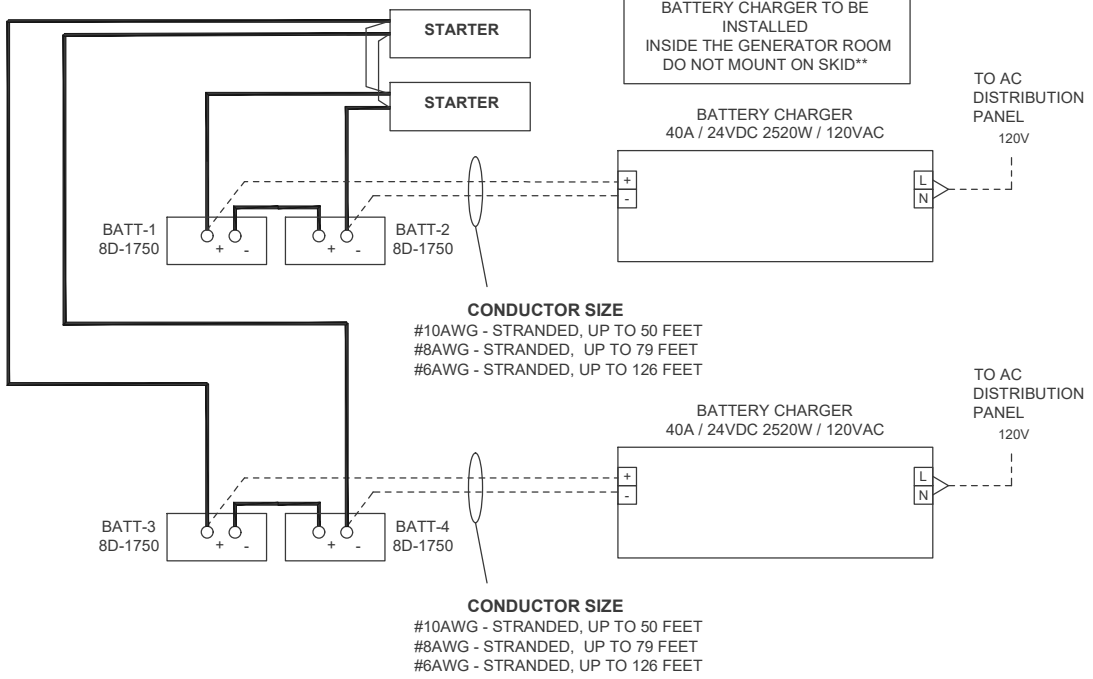
FEATURE:

THESE DEVICES NEED TO BE CONNECTED TO AN AC VOLTAGE FROM A LOAD CENTER PANEL

NOTES:

1. ONE BATTERY CHARGER SHOULD HAVE BOOST MODE ENABLED WHILE THE OTHER HAS BOOST MODE DISABLED.

1



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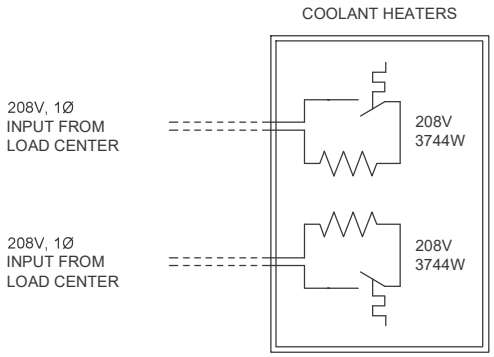
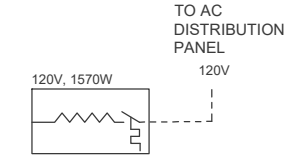


*** REFER TO HEATER INTERFACE DRAWING #63353-10, FOR WIRING CONNECTION.**

3



HEATER- ALTERNATOR

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QUOTED BY:	K.LEPP	CHECK BY:	B.RANSETH
DRAWN BY:	T.HOPKINSON	SCALE:	N/A

Cummins® **Sales and Service**

WESTERN CANADA

PROJECT NAME:	AURORA SUN
CUSTOMER NAME:	DAWSON WALLACE CONST. LTD
DRAWING TITLE:	2500DQKAN AC WIRING & COMPONENTS
DRAWING NO.:	63353- 32
SHEET:	1 OF 1
BRANCH:	EDMONTON