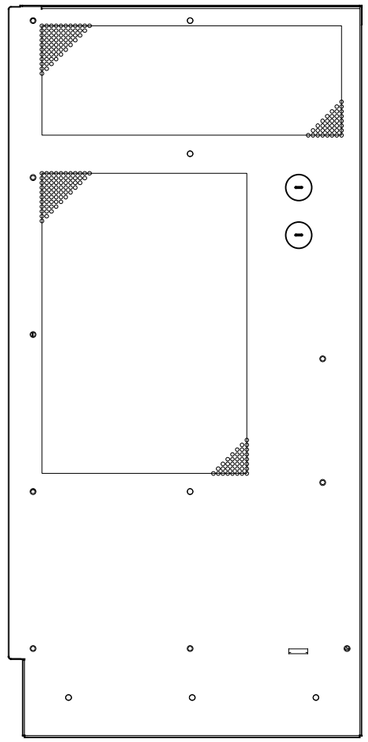
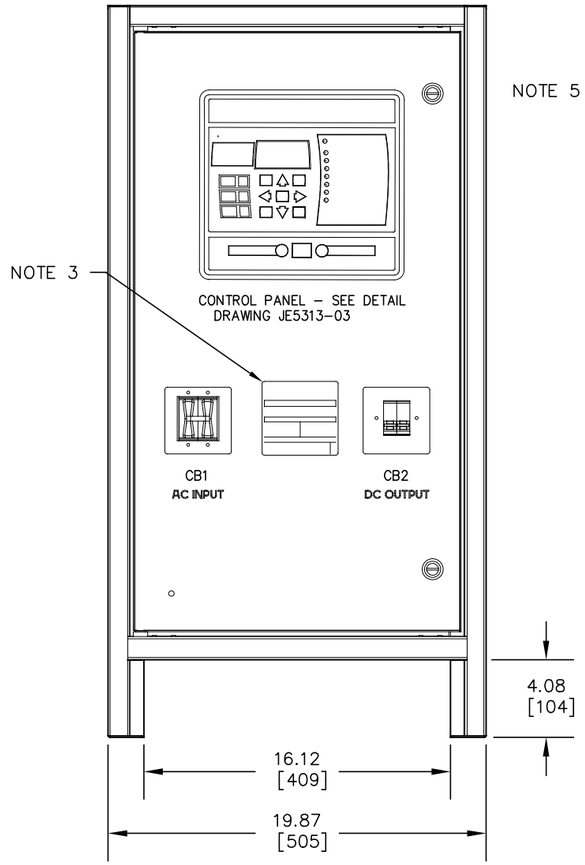
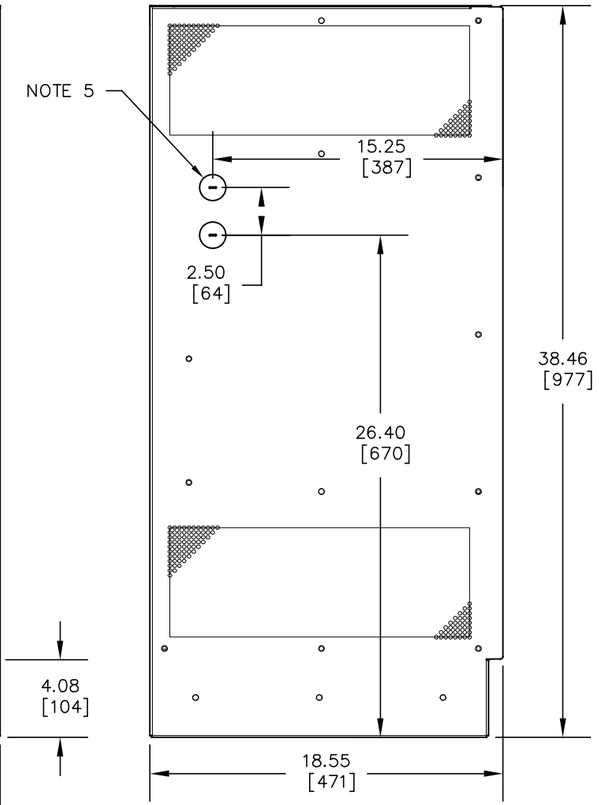
LEFT SIDE VIEW

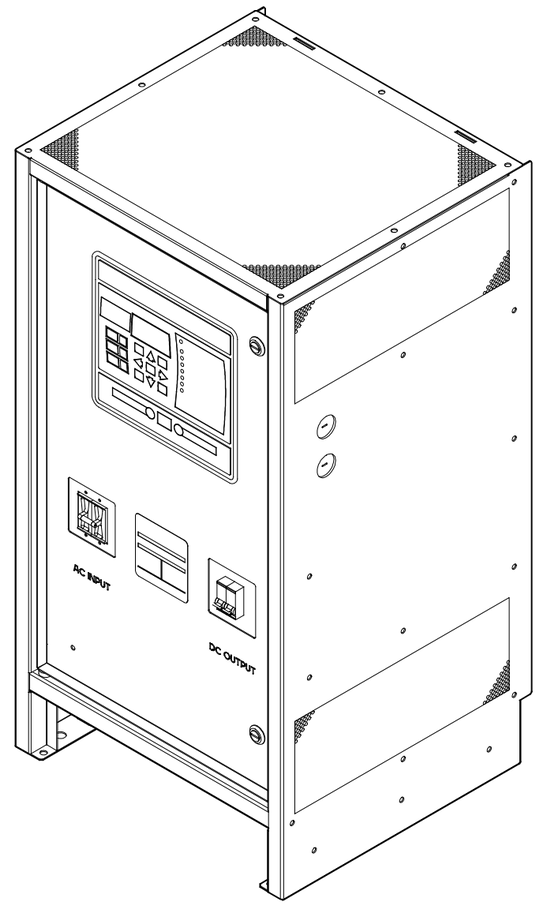


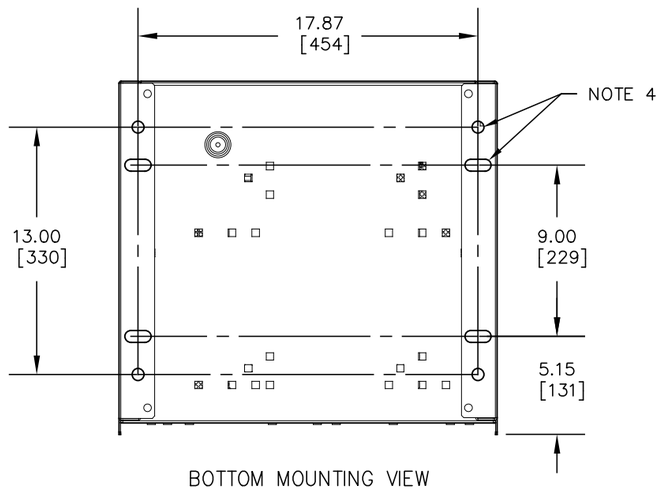
FRONT VIEW



RIGHT SIDE VIEW







BOTTOM MOUNTING VIEW

NOTES:

1. ENCLOSURE IS A NEMA TYPE–1 TOP–VENTED STEEL CABINET WITHOUT GASKETS. SHEET STEEL THICKNESSES ARE 12 GA MOUNTING BASE, 14 GA SIDE PANELS, AND 16 GA TOP PANEL / HINGED DOOR. FINISH IS ANSI–61 GRAY EPOXY POWDERCOAT.
2. ALLOW 6in / 152mm OF FREE AIR ON ALL VENTED SURFACES (TOP & SIDES) FOR COOLING.
3. DATA NAMEPLATE DECAL (WITH CHARGER RATINGS) APPLIED TO DOOR.
4. FOUR (4) 0.5in / 12mm FLOOR–MOUNTING HOLES AND FOUR (4) 1in x 0.625in / 25mm x 16mm FLOOR–MOUNTING SLOTS ARE PROVIDED ON BOTTOM OF ENCLOSURE AS SHOWN.
5. FOUR (4) 1.31in / 33mm DIA STANDARD PRE–FAB KEY–SLOT KNOCKOUTS ARE PROVIDED AS SHOWN FOR 1in / 25mm CONDUIT ENTRY. IF ADDITIONAL CONDUIT ENTRANCES ARE REQUIRED, ENCLOSURE SHOULD BE FIELD–MODIFIED BY INSTALLER.
6. BATTERY CHARGER INSTALLATION WEIGHT: (SEE PRODUCT LITERATURE)

DUAL DIMENSIONS in [mm]

REV	DRN BY	CHK BY	APP BY	DATE
1	TET	MCR	MCR	05.02.2025

DESCRIPTION
REV. 1: (05.02.2025)
REV. 0: (10.29.2021)

DRN BY	KJB	DATE 10.29.2021
CHK BY	MCR	DATE 10.29.2021
APP BY	MCR	DATE 10.29.2021

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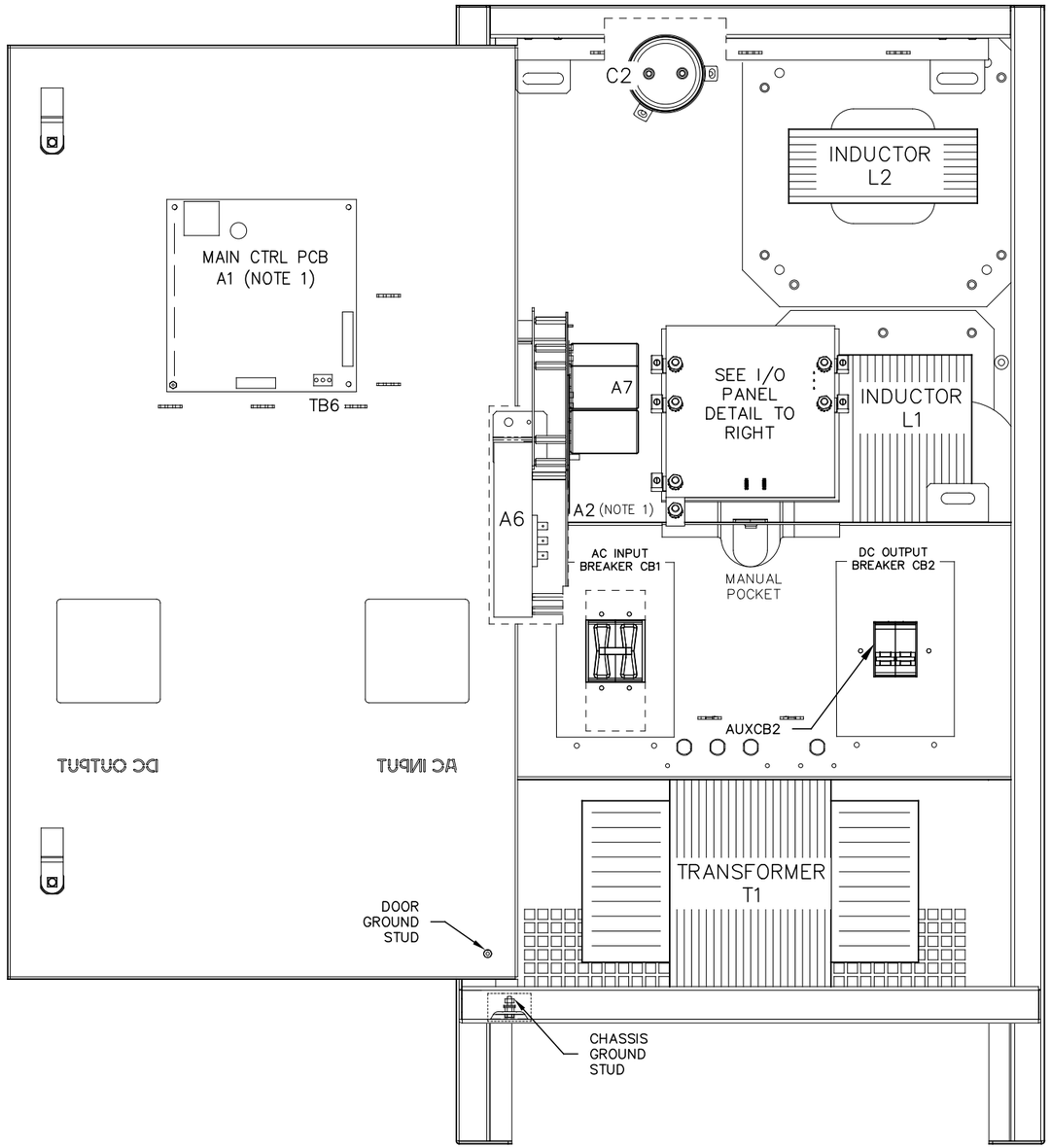
TITLE
ATEVO BATTERY CHARGER OUTLINE
NEMA TYPE–1 STYLE–5070 ENCL
1PH 260V 16–25ADC W/O OPTIONS

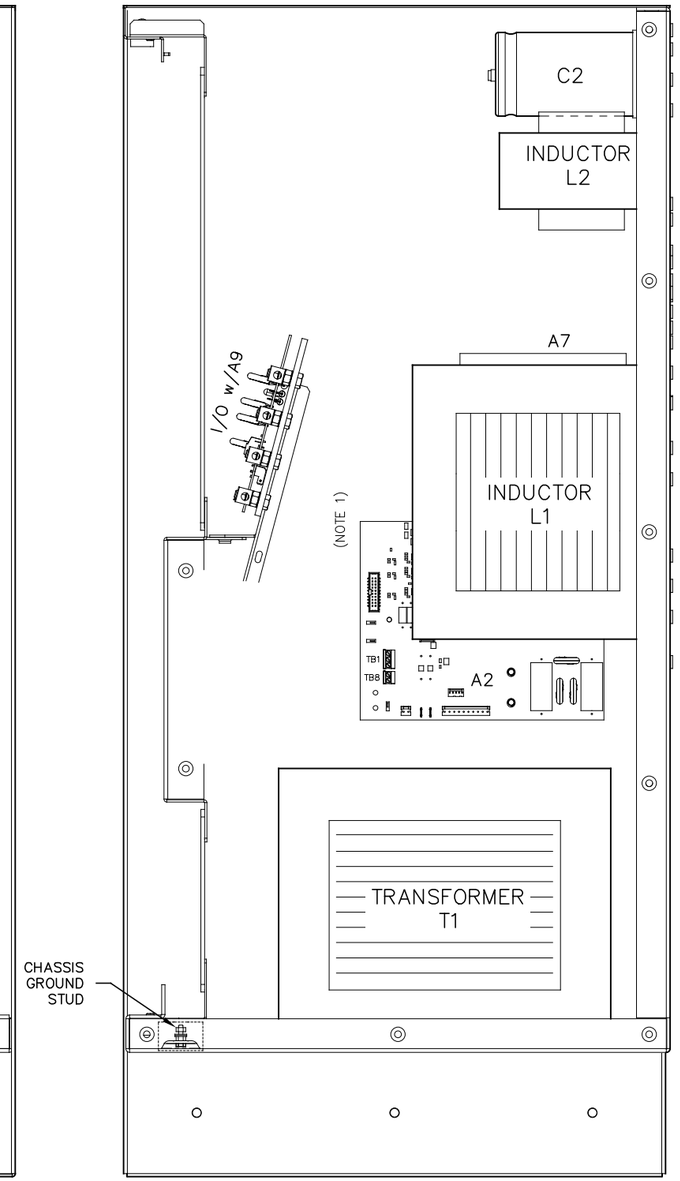
SIZE	SCALE	DWG No	REV	SHEET
B	NTS	JE5309–05	1	1 OF 1

JH0011–05.pdf

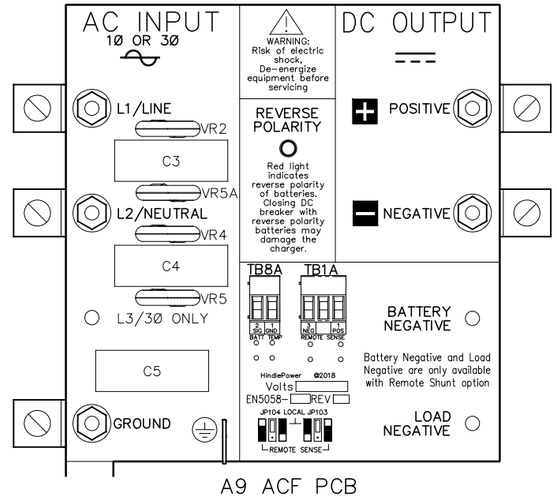
SYM	STANDARD COMPONENT DESCRIPTION
A1	MAIN CONTROL PCB
A6	RECTIFIER ASSEMBLY
A2	POWER BOARD
A9	AC FILTER BOARD
A7	FILTER BOARD (C1x/R9x)
AUXCB2	DC CKT BKR (CB2) AUXILIARY CONTACTS
CB1	AC INPUT CIRCUIT BREAKER (CD2)
CB2	DC OUTPUT CIRCUIT BREAKER (C60–K 2P)
L1	MAIN INDUCTOR
L2	FILTER INDUCTOR
T1	POWER TRANSFORMER
TB1A	REMOTE SENSE (A9) TERMINAL BLOCK
TB6	COMMON ALARM RELAY (A1) CONTACTS
TB8A	BATT TEMPERATURE (A9) TERMINAL BLOCK

SYM	SUPPLIED OPTION COMP DESCRIPTION
C2	BATTERY ELIMINATOR FILTER CAP





STYLE–5070 I/O TERMINAL BOARD DETAIL



A9 ACF PCB

	I/O TERMINAL	DESCRIPTION – TYPE	CONNECTION
	I/O (+/–)	DC OUTPUT TERMINALS – CU–AL COMPRESSION BOX LUG	#14–1/0 AWG
	GND LUG	USER GROUND TERMINAL – CU–AL COMPRESSION BOX LUG	#14–1/0 AWG
	I/O (L1/L2)	AC INPUT TERMINALS – CU–ALUMINUM COMPRESSION LUG	#14–1/0 AWG
(NOTE 1)	(A1) TB6	COMMON ALARM TERMINAL BLOCK (A1) – SOLDERLESS COMPRESSION SCREW	#22–14 AWG
(NOTE 1)	(A9) TB1A	BATTERY Vdc REMOTE SENSE (A2) TERMINALS – SOLDERLESS COMPRESSION SCREW	#22–14 AWG
(NOTE 1)	(A9) TB8A	REMOTE TEMPCO PROBE (A10) TERMINAL BLOCK – SOLDERLESS COMPRESSION SCREW	#22–14 AWG

1. FOR ENHANCED VIEWS OF ALL PC BOARDS (A1, A2, etc.) SEE DETAIL DRAWING (JE5313–05).

REV	DRN BY	CHK BY	APP BY	DATE
1	TET	MCR	MCR	05.02.2025

DESCRIPTION
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DRN BY	KJB	10.29.2021
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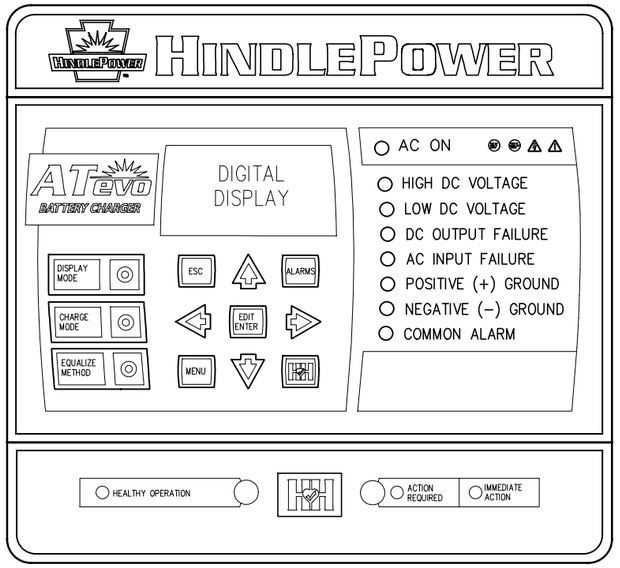
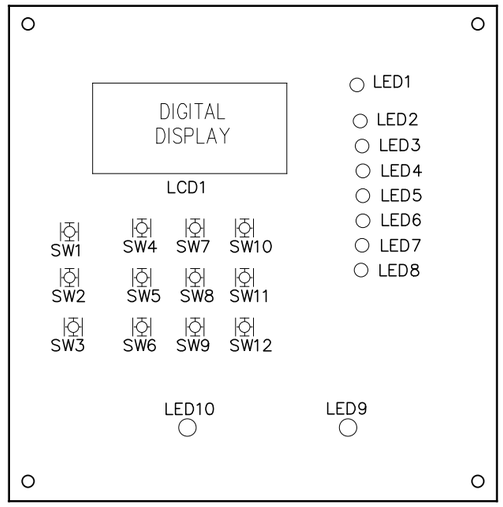
TITLE
ATEVO BATTERY CHARGER
INTERNAL COMPONENT LAYOUT: STYLE–5070
1PH 260V 16–25ADC W/O OPTIONS

SIZE	SCALE	DWG No	REV	SHEET
B	NTS	JE5310–05	1	1 OF 1

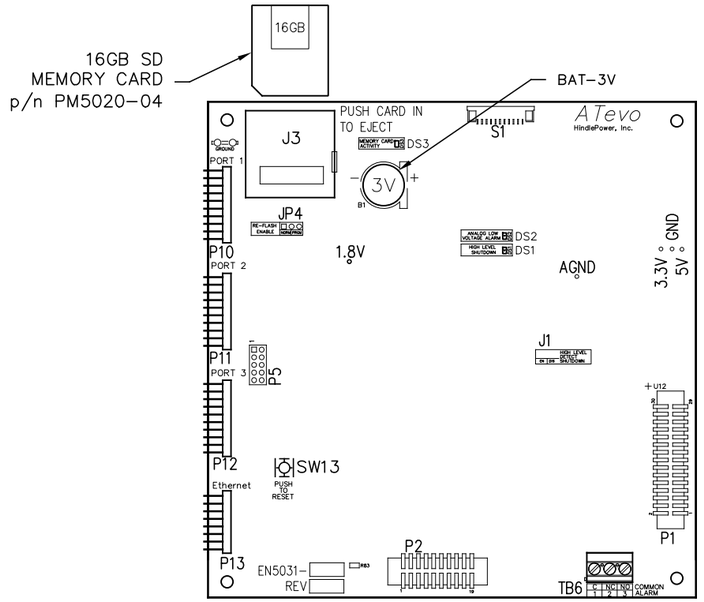
JH0011–05.pdf



CONTROL PANEL
(p/n FK5047-00)



MAIN CONTROL PC BOARD (A1)
FRONT VIEW – FACING CHARGER DOOR WHEN INSTALLED



MAIN CONTROL PC BOARD (A1)
BACK VIEW – FACING CHARGER COMPONENTS WHEN INSTALLED

NOTE: UNLESS OTHERWISE SPECIFIED, ALL USER ALARM TERMINAL BLOCKS ARE SOLDERLESS COMPRESSION SCREW TERMINALS, ACCEPTING #22-14 AWG WIRE. ALARM CONTACTS SHOWN IN NON-ALARM STATE, WITH CHARGER ENERGIZED AND RELAYS ENERGIZED (FAIL SAFE). ALL ALARM CONTACTS WILL CHANGE STATE WHEN ATEVO POWERED DOWN. CONTACT RATING IS 0.5A @ 125VAC/VDC RESISTIVE.

MAIN CONTROL PC BOARD (A1)

INDICATOR LIGHTS (LEDs):
- LED1 – GREEN – AC ON
- LED2 – RED – HIGH DC VOLTAGE ALARM
- LED3 – RED – LOW DC VOLTAGE ALARM
- LED4 – RED – DC OUTPUT FAILURE ALARM
- LED5 – RED – AC INPUT FAILURE ALARM
- LED6 – RED – POSITIVE (+) GROUND ALARM
- LED7 – RED – NEGATIVE (–) GROUND ALARM
- LED8 – RED – COMMON ALARM
- LED9 – RED – ACTION REQUIRED ALARM
- LED10 – GREEN – HEALTHY OPERATION
- DS1 – RED – HIGH LEVEL SHUTDOWN (HLD)
- DS2 – RED – ANALOG LOW VOLTAGE ALARM (LLD)
- DS3 – RED – MEMORY CARD ACTIVITY

JUMPERS:
- J1 – ANALOG HIGH VOLTAGE SHUTDOWN JUMPER
- J3 – SD CARD PORT
- JP4 – RE-FLASH (FIELD PROGRAMMING) JUMPER

TERMINAL BLOCKS:
- TB6 – COMMON ALARM RELAY CONTACTS

TEST POINTS:
- 1.8V – 1.8 VOLTS
- 3.3V – 3.3 VOLTS
- 5V – 5.0 VOLTS
- GND – GROUND
- AGND – ANALOG GROUND
- SDA – MAIN BOARD 12C DATA
- SCL – MAIN BOARD 12C CLOCK

SWITCHES:
- SW1 – DISPLAY BUTTON
- SW2 – CHARGE MODE BUTTON
- SW3 – EQUALIZE METHOD BUTTON
- SW4 – ESCAPE (ESC) BUTTON
- SW5 – LEFT ARROW BUTTON
- SW6 – MENU BUTTON
- SW7 – UP ARROW BUTTON
- SW8 – EDIT / ENTER BUTTON
- SW9 – DOWN ARROW BUTTON
- SW10 – ALARM BUTTON
- SW11 – RIGHT ARROW BUTTON
- SW12 – HINDLE HEALTH (HHS) BUTTON
- SW13 – SYSTEM RESET BUTTON (BACK OF BOARD)

CONNECTORS:
- P1 – POWER BOARD RIBBON
- P2 – 3 PHASE RECTIFIER RIBBON
- P3 – USB EXPANSION PORT
- P4 – SPI & I2C EXPANSION PORT #1
- P5 – SPI & I2C EXPANSION PORT #2
- P6 – DISPLAY SPI PORT
- P7 – DISPLAY JTAG PORTS
- P10 – SERIAL INTERFACE PORT #1
- P11 – SERIAL INTERFACE PORT #2
- P12 – SERIAL INTERFACE PORT #3
- P13 – ETHERNET INTERFACE PORT
- P17 – GENERAL EXPANSION PORT

I/O TERMINAL	DESCRIPTION – TYPE	CONNECTION
(A1) TB6	COMMON ALARM TERMINAL BLOCK (A1) – SOLDERLESS COMP SCREW	#22-14 AWG

REV	DRN BY	CHK BY	APP BY	DATE
1	TET	MCR	MCR	05.02.2025

DESCRIPTION
REV. 1: (05.02.2025)
REV. 0: (10.29.2021)

DRN BY	KJB	10.29.2021
CHK BY	MCR	10.29.2021
APP BY	MCR	10.29.2021

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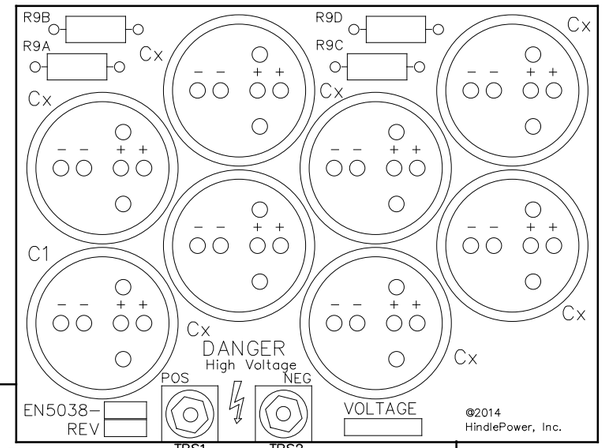
TITLE
ATEVO BATTERY CHARGER
CONTROL PANEL / PC BOARD DETAIL
1PH 260V 16-25ADC W/O OPTIONS

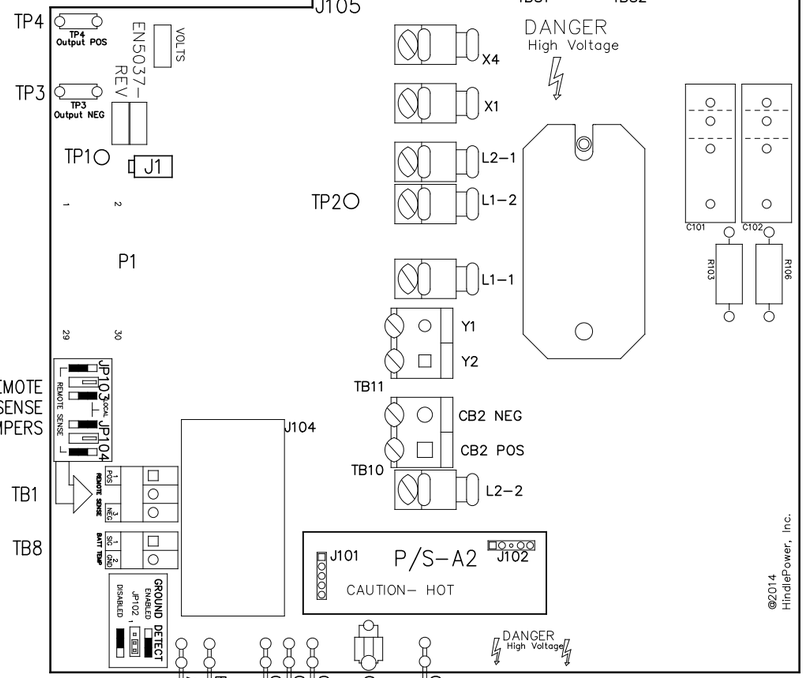
SIZE	SCALE	DWG No	REV	SHEET
B	NTS	JE5313-05	1	1 OF 2

JH0011-05.pdf

FILTER BOARD (A7)



J105



POWER BOARD (A2)

I/O TERMINAL	DESCRIPTION – TYPE	CONNECTION
(A2) TB1	BATTERY Vdc REMOTE SENSE (A2) TERMINALS – SOLDERLESS COMPRESSION SCREW	#22–14 AWG
(A2) TB8	REMOTE TEMPCO PROBE (A10) TERMINAL BLOCK – SOLDERLESS COMPRESSION SCREW	#22–14 AWG

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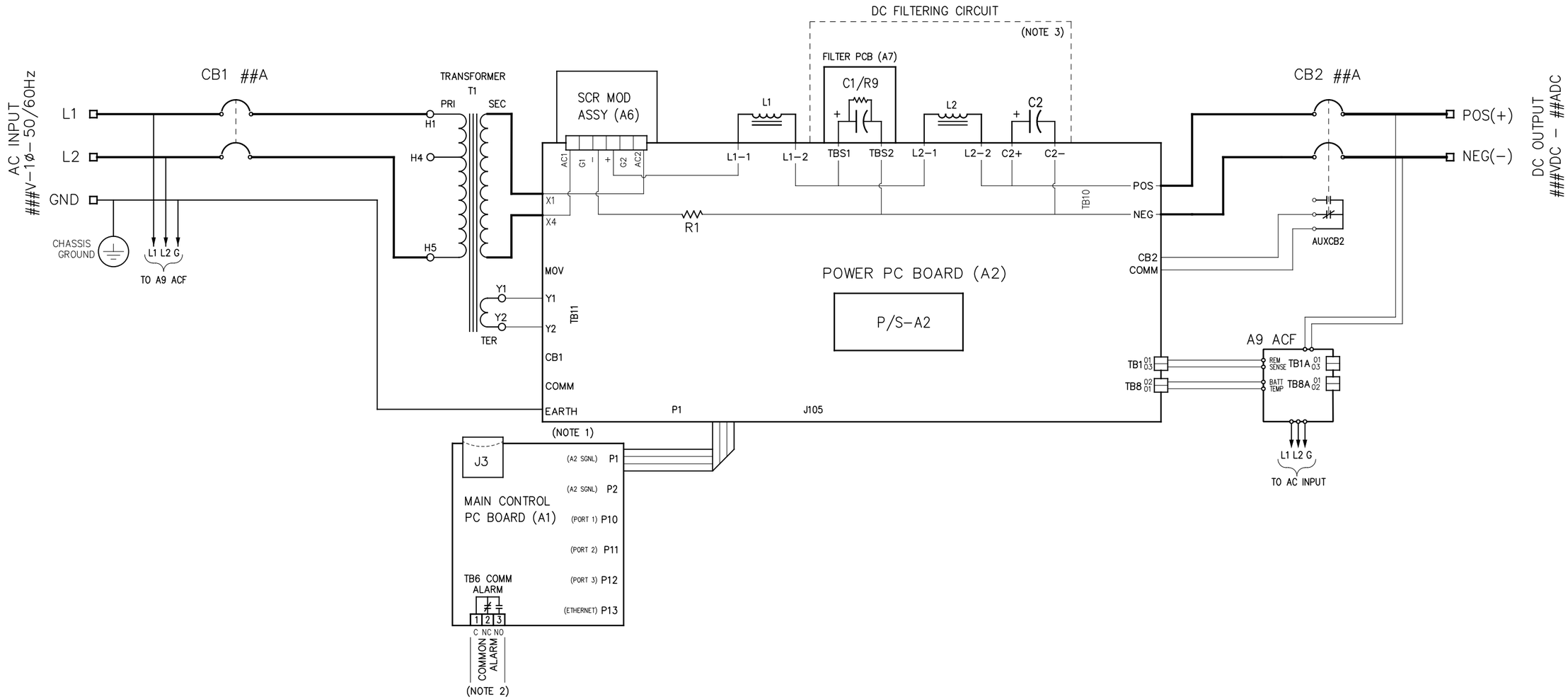
TITLE
ATEVO BATTERY CHARGER
CONTROL PANEL / PC BOARD DETAIL
1PH 260V 16–25ADC W/O OPTIONS

B	SCALE NTS	DWG No JE5313–05	REV 1	SHEET 2 OF 2

JH0011–05.pdf



NOTES:

1. FOR PHYSICAL COMPONENT FEATURES OF PC BOARDS (A1, A2, etc.) SEE DETAIL DRAWING (JE5313–05).
2. ALL ALARM CONTACTS SHOWN IN NON–ALARM STATE, WITH CHARGER AND RELAYS ENERGIZED (FAIL SAFE). CONTACTS WILL CHANGE STATE WHEN ATEVO POWERED DOWN.
   . CONTACT RATING: 0.5A @ 125VAC/VDC RESISTIVE
3. DC FILTERING CIRCUIT (C1/L2/C2) DESIGNED AND TESTED TO MEET NEMA PE5 SPECIFICATION FOR "ELIMINATOR" (CODE "E"). MEASURED AC RIPPLE MAY BE LOWER, WHEN CONNECTED TO BATTERY.

REV	DRN BY	CHK BY	APP BY	DATE
1	TET	MCR	MCR	05.02.2025

DESCRIPTION
REV. 1: (05.02.2025)
REV. 0: (10.29.2021)

DRN BY	KJB	10.29.2021
CHK BY	MCR	10.29.2021
APP BY	MCR	10.29.2021

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TITLE
ATEVO BATTERY CHARGER
SCHEMATIC: STYLE 5070
1PH 260V 16–25ADC W/O OPTIONS

SIZE	SCALE	DWG No	REV	SHEET
B	NTS	JE5311–05	1	1 OF 1

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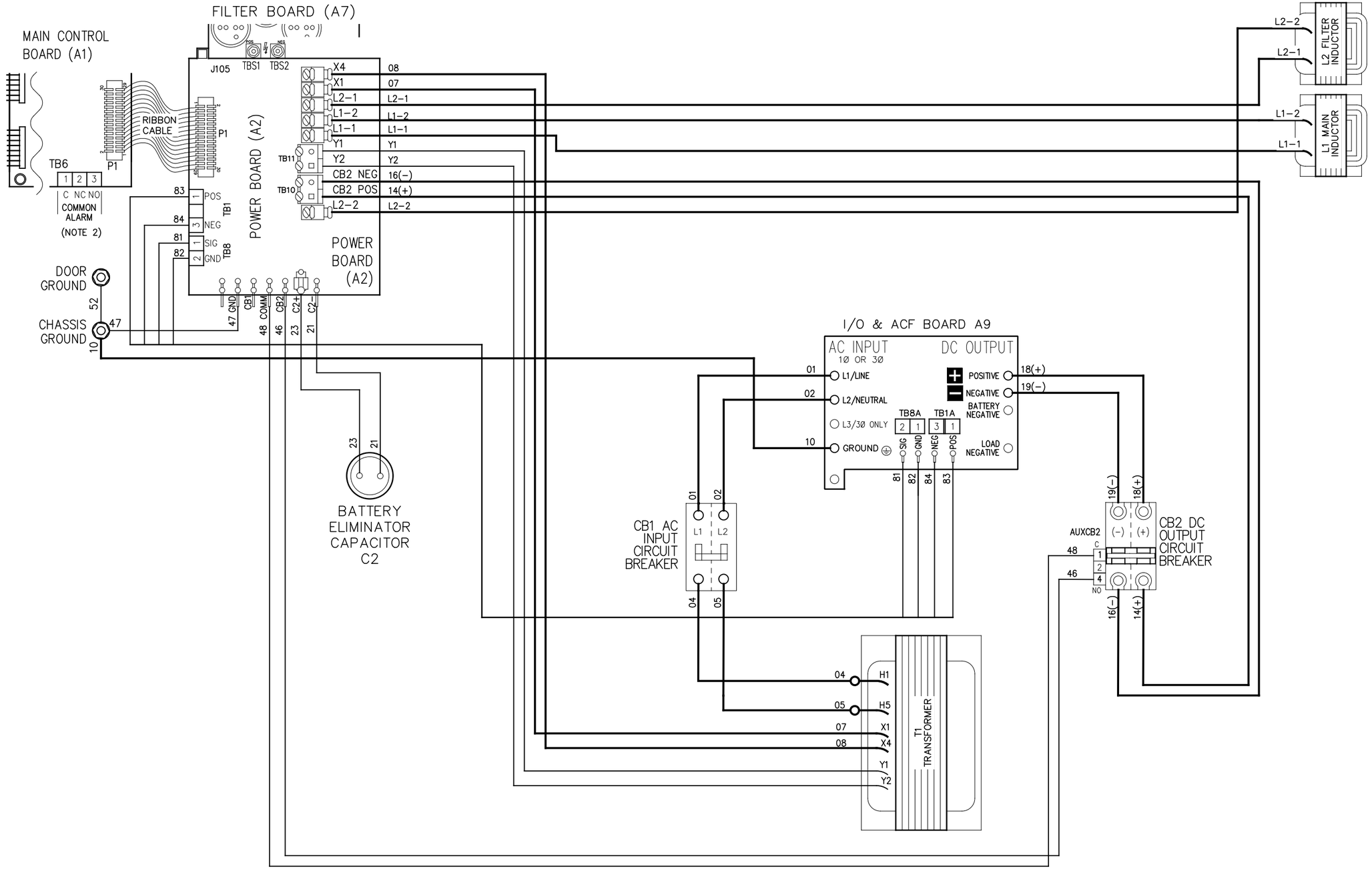

NOTES:

1. WHEN NATURAL LEADS OF MAGNETICS ARE NOT USED, CHARGER COMPONENTS ARE CONNECTED WITH BLACK FLAME-RETARDANT SWITCHBOARD INSULATION SYSTEM (SIS) TYPE WIRING, IDENTIFIED ON EACH END WITH NUMBER-CODED MARKERS.
2. STANDARD USER ALARM CONTACTS (TB6[A1], TB1[A2], TB8[A2], etc.) ARE SOLDERLESS COMPRESSION SCREW TERMINALS, ACCEPTING #22-14 AWG WIRE.

REV	DRN BY	CHK BY	APP BY	DATE
1	TET	MCR	MCR	05.02.2025

DESCRIPTION
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TITLE
ATEVO BATTERY CHARGER
CONNECTION DIAGRAM: STYLE 5070
1PH 260V 16-25ADC W/O OPTIONS

SIZE	SCALE	DWG No	REV	SHEET
B	NTS	JE5312-05	1	1 OF 1

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