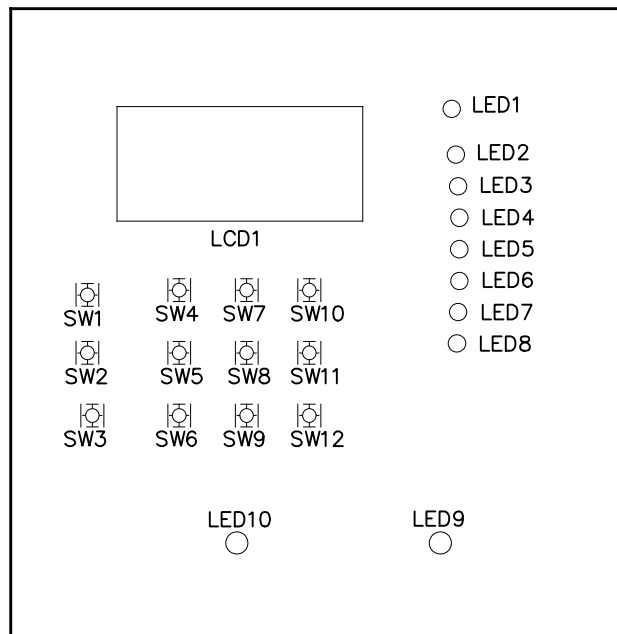
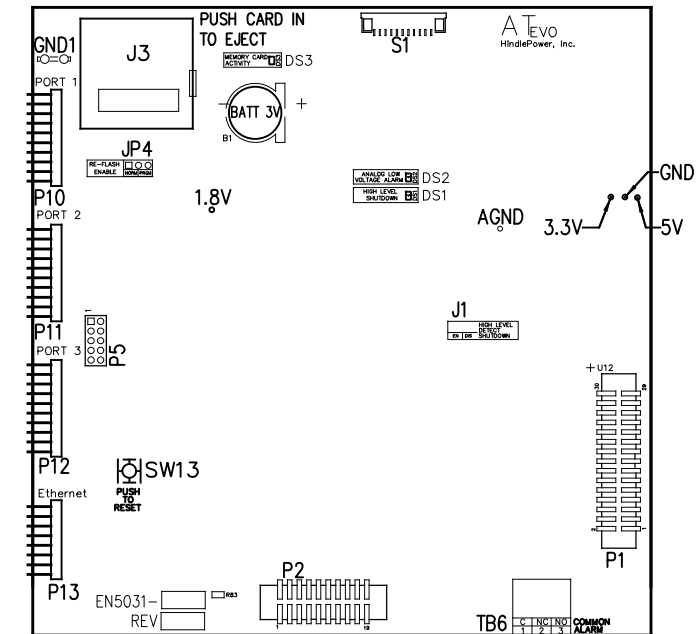


CONTROL PANEL
(PART No. FK5047-00)

NOTE: ALL ALARM CONTACTS ARE ENERGIZED WHEN IN THE NON-ALARM STATE (FAIL SAFE). ALL ALARM CONTACTS WILL CHANGE STATE WHEN CHARGER IS POWERED DOWN. CONTACT RATING IS 0.5A @ 125VAC/VDC RESISTIVE.



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



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

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:

- S1 – DISPLAY BUTTON
- S2 – CHARGE MODE BUTTON
- S3 – EQUALIZE METHOD BUTTON
- S4 – ESCAPE (ESC) BUTTON
- S5 – LEFT ARROW BUTTON
- S6 – MENU BUTTON
- S7 – UP ARROW BUTTON
- S8 – EDIT / ENTER BUTTON
- S9 – DOWN ARROW BUTTON
- S10 – ALARM BUTTON
- S11 – RIGHT ARROW BUTTON
- S12 – 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	SUMMARY ALARM TERMINAL BLOCK (A1) – SOLDERLESS COMP SCREW	#22-14 AWG

REV. DRN BY	CHK BY	APP BY	DATE	DRN BY	DATE
D	KJB	MCR	MCR	12/1/2021	1/21/2021
DESCRIPTION			CHK BY	DATE	
STANDARD DRAWINGS.			MCR	1/21/2021	
ECN NO. N/A			APP BY	DATE	
			MCR	1/21/2021	
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TITLE

ATEVO BATTERY CHARGER
CONTROL PANEL / PC BOARD DETAIL
1Ø W/O OPTIONS 6-25A

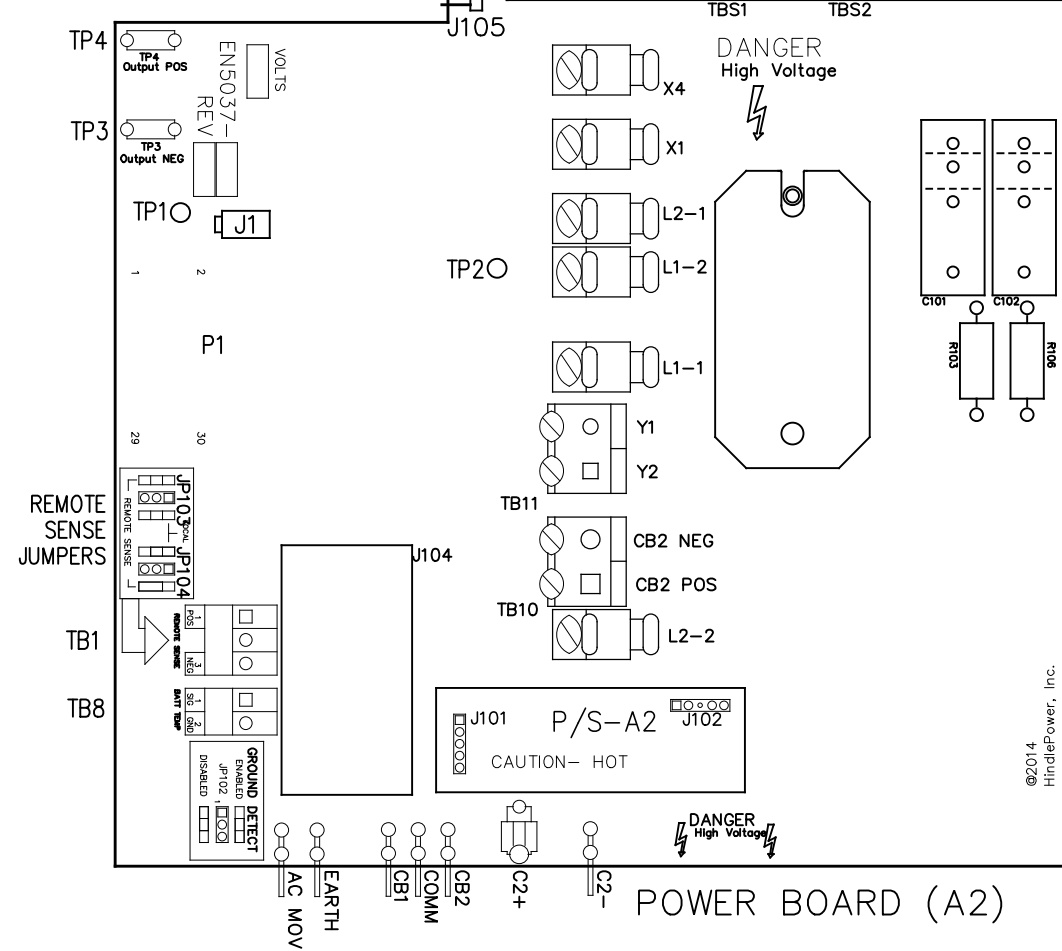
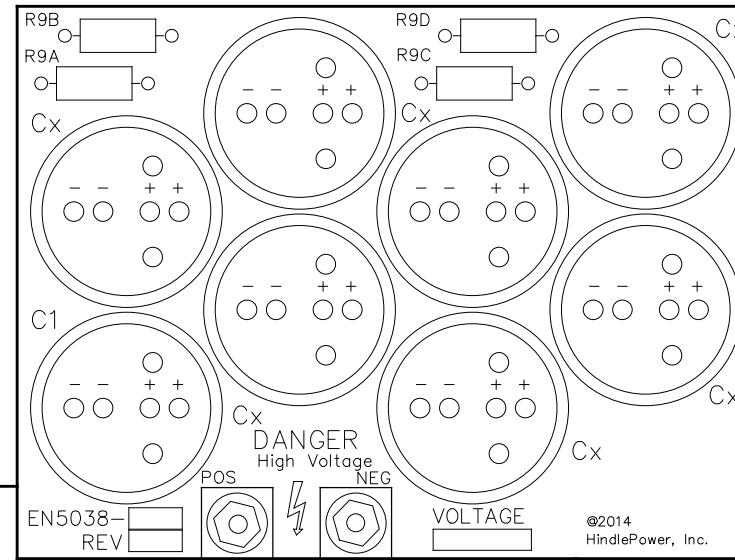
B SCALE DWG No

NTS

JE5253-01


REV D SHEET 1 OF 2

FILTER BOARD (A7)



- USER TERMINALS ON POWER BOARD (A2):
 TB1 – REMOTE VOLTAGE SENSE
 TB8 – BATTERY TEMPERATURE COMPENSATION
- JUMPERS ON POWER BOARD (A2):
 JP102 – GROUND DETECT CIRCUIT ENABLE / DISABLE
 JP103 – REMOTE OR LOCAL SENSE SELECTOR (+)
 JP104 – REMOTE OR LOCAL SENSE SELECTOR (-)
- CONNECTORS ON POWER BOARD (A2):
 J1 – POWER OUT
 J101 – DC POWER SUPPLY
 J102 – DC POWER SUPPLY
 J105 – AUXILIARY I/O BOARD
 P1 – MAIN CONTROL BOARD RIBBON
- DISCRETE TERMINALS:
 AC MOV – CHASSIS EARTH GROUND
 EARTH – CHASSIS EARTH GROUND (DOOR)
 CB1 – AC BREAKER AUX SWITCH CONTACT
 CB2 – DC BREAKER AUX SWITCH CONTACT
 COMM – BREAKER AUX SWITCH COMMON
 C2+ – ELIMINATOR FILTER CAPACITOR (+)
 C2- – ELIMINATOR FILTER CAPACITOR (-)
 X1 – TRANSFORMER SECONDARY WINDING
 X4 – TRANSFORMER SECONDARY WINDING
 L1-1 – FILTER INDUCTOR #1 (TERMINAL #1)
 L1-2 – FILTER INDUCTOR #1 (TERMINAL #2)
 L2-1 – FILTER INDUCTOR #2 (TERMINAL #1)
 L2-2 – FILTER INDUCTOR #2 (TERMINAL #2)
 TB10 – CB2 DC BREAKER
 TB11 – 'Y' CONTROL WINDINGS
 TBS1 – FILTER CAPACITOR BOARD (+)
 TBS2 – FILTER CAPACITOR BOARD (-)
- TEST POINTS ON POWER BOARD (A2):
 TP1 – PRE-FILTERED DC BUS (-)
 TP2 – PRE-FILTERED DC BUS (+)
 TP3 – DC BUS (-)
 TP4 – DC BUS (+)

I/O TERMINAL	DESCRIPTION - TYPE	CONNECTION
(A2) TB1	POS/NEG REMOTE SENSE TERMS (A2) – SOLDERLESS COMP SCREW	#22-14 AWG
(A2) TB8	TEMPCO PROBE (A10) TERM BLK – SOLDERLESS COMP SCREW	#22-14 AWG



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TITLE: ATEVO BATTERY CHARGER
 CONTROL PANEL / PC BOARD DETAIL
 1Ø W/O OPTIONS 6-25A

B	SCALE	DWG No	JE5253-01	REV	SHEET
	NTS			D	2 OF 2