



- NOTES:
- 1) FOR PHYSICAL COMPONENT FEATURES OF PC BOARDS (A1, A5, A11, etc.) SEE DRAWING JE5030-##.
  - 2) ALL ALARM CONTACTS SHOWN IN NON-ALARM STATE, WITH CHARGER ENERGIZED AND ALARM RELAYS ENERGIZED (FAIL SAFE). ALL ALARM CONTACTS WILL CHANGE STATE WHEN CHARGER IS POWERED DOWN. CONTACT RATING IS: 0.5A @ 125VAC/VDC RESISTIVE
  - 3) POWER ISOLATION TRANSFORMER (T1) IS FIELD RE-TAPPABLE SEE D&SI SECTION 1.6 OR JD5026-00 FOR DETAILS.
  - 4) RESISTORS R4, R6 & R14 FEATURED INTERNALLY ON GATE DRIVER PC BOARD (A15).
  - 5) IN 48VDC AND 130VDC UNITS, BALLAST RESISTOR (R3) IS FEATURED EXTERNAL TO MAIN CONTROL CIRCUIT AS SHOWN.
  - 6) SEE D&SI SECTION 1.9 FOR REMOTE SENSE DETAILS.

STANDARD AT10.1 COMPONENTS:

- A1 MAIN CONTROL PC BOARD (NOTE 1)
- A11 SINGLE PHASE 100A GATE DRIVER PCB (NOTE 1)
- C4 DC OUTPUT EMI FILTER CAPACITOR (-) TO GROUND
- C5 DC OUTPUT EMI FILTER CAPACITOR (+) TO GROUND
- CB1 AC INPUT CIRCUIT BREAKER
- CB2 DC OUTPUT CIRCUIT BREAKER
- CR4 FREE-WHEELING DIODE
- L1 MAIN INDUCTOR
- Q1 SILICON-CONTROLLED RECTIFIER (SCR) MODULE
- Q2 SILICON-CONTROLLED RECTIFIER (SCR) MODULE

STANDARD AT10.1 COMPONENTS:

- R1 MAIN DC SHUNT, NEG(-) BUS
- R2 CURRENT RATING RESISTOR
- R3 POWER SUPPLY BALLAST RESISTOR (NOTE 5)
- R4 EXTERNAL SCALING RESISTOR (+) (NOTE 4)
- R6 INTERNAL SCALING RESISTOR (NOTE 4)
- R14 EXTERNAL SCALING RESISTOR (-) (NOTE 4)
- T1 POWER ISOLATION TRANSFORMER (+10/-12%)
- TB1 INPUT/OUTPUT TERMINAL BLOCK
- TB3 SUMMARY ALARM TERMINAL BLOCK (NOTE 2)
- TB8 OPTIONAL TEMP/CO PROBE (A10) INTERCONNECTOR
- VR1 DC OUTPUT SURGE SUPPRESSOR (-) TO (+)
- VR2 AC INPUT SURGE SUPPRESSOR (L1-L2)
- VR4 AC INPUT SURGE SUPPRESSOR (L1-GND)
- VR5 AC INPUT SURGE SUPPRESSOR (L2-GND)
- VR6 DC OUTPUT SURGE SUPPRESSOR (-) TO GROUND
- VR7 DC OUTPUT SURGE SUPPRESSOR (+) TO GROUND
- W1 POSITIVE(+) DC BUS BAR
- W2 NEGATIVE(-) DC BUS BAR

SUPPLIED AT10.1 OPTION COMPONENTS:

3	-N/A-	081721		THIRD ANGLE PROJECTION
2	E2141	091305	DRAWN BY	MCR 022003
1	E1203	040703	ELECTRONIC APPROVAL SIGNATURES MAINTAINED BY MFG ECN LOG	
0	E1142	022003	UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:	
REV	ECN No	DATE		

TITLE		AT10.1 SERIES BATTERY CHARGER SCHEMATIC: 30-100 Adc (GROUP II - STANDARD W/O OPTIONS)		
DRAWING No		JE5032-00		REV 3
SCALE	NTS	PART No	JE5032-00	SHEET 1 OF 1