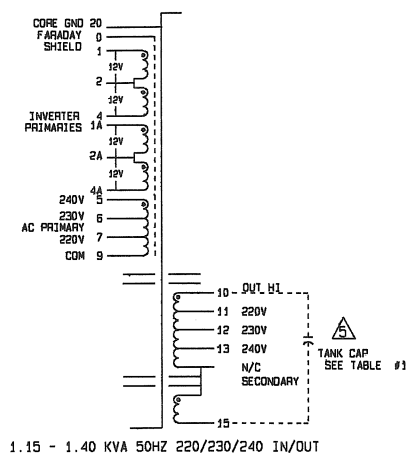
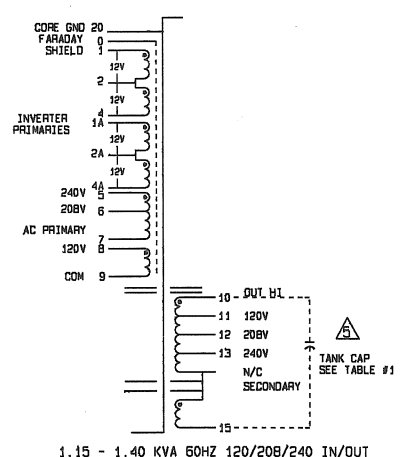


DWG NO.	D5465S01	SN	1	REV	B	1
REVISIONS						
REV	DESCRIPTION	DATE	BY	CHKR	ENGR	
A	RELEASE TO PRODUCTION	02/27/95	BJB			
B	CORRECTIONS PER ECN 3643	06/12/95	TW			

TRANSFORMER DRAWING #1



TRANSFORMER DRAWING #2



TRANSFORMER DRAWING #3

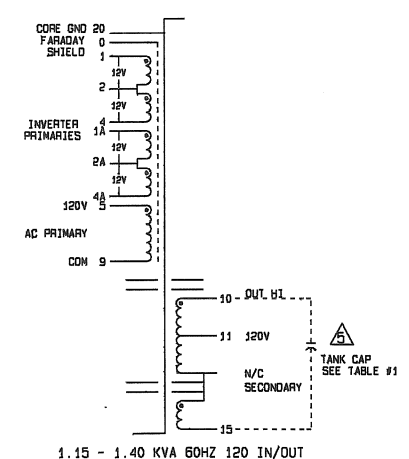


TABLE #1

UNIT SIZE	220/230/240 50HZ	120/208/240 60HZ	120 60HZ
1.15 KVA	30 uF	25 uF	25 uF
1.40 KVA	40 uF	30 uF	35 uF

NOTES:

- △ WIRE COLORS WILL VARY FOR INPUT AND OUTPUT WIRING. 60 HZ USES BLK AND RED FOR HOTS, WHT FOR NEUTRAL, AND GRN/YEL FOR GND. 50 HZ USES BLN FOR HOTS, BLU FOR NEUTRAL, AND GRN/YEL FOR GND.
- △ BECAUSE OF THE NUMEROUS RECEPTICAL OUTPUT WIRING OPTIONS OF THIS UNIT THEY WILL NOT BE SHOWN IN THIS SYSTEM SCHEMATIC. SEE THE TECHNICAL REFERENCE MANUAL.
- △ NUMBERS IN BOXES REPRESENT TRANSFORMER LEAD NUMBERS WHICH DO NOT CHANGE. SOME TRANSFORMERS DO NOT USE ALL LEADS.
- △ ONLY ONE (1) OF THESE OPTIONS ARE USED.

- △ IF A TANK CAPACITOR SHOULD NEED REPLACING OBSERVE THE CAPACITOR CASE TO SEE IF THERE IS A COLORED TOLERANCE DOT INDICATOR. REPLACE THE CAPACITOR WITH ONE OF THE SAME VALUE AND COLORED TOLERANCE DOT INDICATOR. IF TANK CAPACITORS ARE AVAILABLE BUT WITHOUT THE TOLERANCE DOT, MEASURE THE TANK CAPACITORS THAT ARE AVAILABLE AND INSTALL THE TANK CAPACITOR THAT BEST MATCHES THE ONE REMOVED. IF THE TANK CAPACITOR REMOVED HAS A RED DOT ADD 6% TO THE VALUE OF THE CAPACITOR AND THIS WILL BE THE NEW VALUE OF THE ONE THAT REPLACES IT. IF IT HAS A YELLOW DOT ADD 3%. A WHITE DOT SUBTRACT 3% AND IF IT HAS A BLACK DOT SUBTRACT 6%. THE MAIN GOAL TRYING TO BE ACHIEVED IS TO COME AS CLOSE TO THE REQUIRED CAPACITANCE FOR THE FERRO TRANSFORMER AS POSSIBLE.

PROPRIETARY

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TABLE 2

60HZ, 120V INPUT 120V OUTPUT

E1	WHITE JUMPER WIRE FROM AUXILIARY BOARD E1
E4	BROWN WIRE TO OUTPUT TERMINAL BLOCK (L)
E5	BLACK WIRE FROM THE CAPACITOR
E6	TRANSFORMER WIRE #10
E7	N.C.
E8	N.C.
E9	TRANSFORMER WIRE #11
E10	BLUE WIRE TO OUTPUT TERMINAL BLOCK (N)
E11	WHITE JUMPER WIRE FROM AUXILIARY BOARD E13
E12	TRANSFORMER WIRE #9
E13	WHITE JUMPER WIRE FROM AUXILIARY BOARD E9
E14	N.C.
E15	RED WIRE TO FUSE HOLDER STUD
E16	TRANSFORMER WIRE #4A
E17	NEG BATTERY CABLE & WHT/BLK JUMPER TO E4 AUX. BD
E18	TRANSFORMER WIRE #1A
E19	N.C.
E20	N.C.

60HZ, 208V INPUT 208V OUTPUT

E1	WHITE JUMPER WIRE FROM AUXILIARY BOARD E1
E4	BROWN JUMPER WIRE TO E20
E5	BLACK WIRE FROM THE CAPACITOR
E6	TRANSFORMER WIRE #10
E7	N.C.
E8	N.C.
E9	TRANSFORMER WIRE #12
E10	BLUE WIRE TO OUTPUT TERMINAL BLOCK (N)
E11	WHITE JUMPER WIRE FROM AUXILIARY BOARD E13
E12	TRANSFORMER WIRE #9
E13	WHITE JUMPER WIRE FROM AUXILIARY BOARD E9
E14	N.C.
E15	RED WIRE TO FUSE HOLDER STUD
E16	TRANSFORMER WIRE #4A
E17	NEG BATTERY CABLE & WHT/BLK JUMPER TO E4 AUX. BD
E18	TRANSFORMER WIRE #1A
E19	BROWN WIRE TO OUTPUT TERMINAL BLOCK (L)
E20	BROWN JUMPER WIRE E4

60HZ, 208IN 120/240V OUTPUT

E1	WHITE JUMPER WIRE FROM AUXILIARY BOARD E1
E4	BLACK WIRE FROM THE OUTPUT TERMINAL BLOCK (L)
E5	BLACK WIRE FROM THE CAPACITOR
E6	TRANSFORMER WIRE #10
E7	N.C.
E8	N.C.
E9	TRANSFORMER WIRE #11
E10	WHITE/BLACK WIRE TO RECEPTACLE TERMINAL BLOCK (N)
E11	WHITE JUMPER WIRE FROM AUXILIARY BOARD E13
E12	TRANSFORMER WIRE #9
E13	WHITE JUMPER WIRE FROM AUXILIARY BOARD E9
E14	N.C.
E15	RED WIRE TO FUSE HOLDER STUD
E16	TRANSFORMER WIRE #4A
E17	NEG BATTERY CABLE & WHT/BLK JUMPER TO E4 AUX. BD
E18	TRANSFORMER WIRE #1A
E19	TRANSFORMER WIRE #13
E20	RED WIRE TO OUTPUT TERMINAL BLOCK (L2)

60HZ, 208V IN 120/208 OUTPUT

E1	WHITE JUMPER WIRE FROM AUXILIARY BOARD E1
E4	BLACK WIRE TO OUTPUT TERMINAL BLOCK (L)
E5	BLACK WIRE FROM THE CAPACITOR
E6	TRANSFORMER WIRE #10
E7	N.C.
E8	N.C.
E9	TRANSFORMER WIRE #11
E10	WHITE/BLACK WIRE TO OUTPUT TERMINAL BLOCK (N)
E11	WHITE JUMPER WIRE FROM AUXILIARY BOARD E13
E12	TRANSFORMER WIRE #9
E13	WHITE JUMPER WIRE FROM AUXILIARY BOARD E9
E14	N.C.
E15	RED WIRE TO FUSE HOLDER STUD
E16	TRANSFORMER WIRE #4A
E17	NEG BATTERY CABLE & WHT/BLK JUMPER TO E4 AUX. BD
E18	TRANSFORMER WIRE #1A
E19	TRANSFORMER WIRE #12
E20	RED WIRE TO OUTPUT TERMINAL BLOCK (L1)

HOW TO USE THESE VOLTAGE CHARTS

- 1) . SELECT THE PROPER INPUT AND OUTPUT VOLTAGE COMBINATION.
- 2) . THE TOP CHART BELOW THE SELECTION IS THE CONNECTIONS TO BE MADE ON THE MAIN POWER BOARD.
- 3) . THE BOTTOM CHART BELOW THE SELECTION IS THE CONNECTIONS TO BE MADE ON THE AUXILIARY POWER BOARD.

60HZ, 240V IN 120/240 OUTPUT

E1	WHITE JUMPER WIRE FROM AUXILIARY BOARD E1
E4	BLACK WIRE TO OUTPUT TERMINAL BLOCK (L)
E5	BLACK WIRE FROM THE CAPACITOR
E6	TRANSFORMER WIRE #10
E7	N.C.
E8	N.C.
E9	TRANSFORMER WIRE #11
E10	WHITE/BLACK WIRE TO OUTPUT TERMINAL BLOCK (N)
E11	WHITE JUMPER WIRE FROM AUXILIARY BOARD E13
E12	TRANSFORMER WIRE #9
E13	WHITE JUMPER WIRE FROM AUXILIARY BOARD E9
E14	N.C.
E15	RED WIRE TO FUSE HOLDER STUD
E16	TRANSFORMER WIRE #4A
E17	NEG BATTERY CABLE & WHT/BLK JUMPER TO E4 AUX. BD
E18	TRANSFORMER WIRE #1A
E19	TRANSFORMER WIRE #13
E20	RED WIRE TO OUTPUT TERMINAL BLOCK (L2)

60HZ, 240V INPUT 240V OUTPUT

E1	WHITE JUMPER WIRE FROM AUXILIARY BOARD E1
E4	BROWN JUMPER WIRE TO E20
E5	BLACK WIRE FROM THE CAPACITOR
E6	TRANSFORMER WIRE #10
E7	N.C.
E8	N.C.
E9	TRANSFORMER WIRE #13
E10	BLUE WIRE TO RECEPTACLE TERMINAL BLOCK (N)
E11	WHITE JUMPER WIRE FROM AUXILIARY BOARD E13
E12	TRANSFORMER WIRE #9
E13	WHITE JUMPER WIRE FROM AUXILIARY BOARD E9
E14	N.C.
E15	RED WIRE TO FUSE HOLDER STUD
E16	TRANSFORMER WIRE #4A
E17	NEG BATTERY CABLE & WHT/BLK JUMPER TO E4 AUX. BD
E18	TRANSFORMER WIRE #1A
E19	BROWN WIRE TO OUTPUT TERMINAL BLOCK (L)
E20	BROWN JUMPER WIRE TO E4

50HZ, 220V INPUT 220V OUTPUT

E1	WHITE JUMPER WIRE FROM AUXILIARY BOARD E1
E4	BROWN JUMPER WIRE TO E20
E5	BLACK WIRE FROM THE CAPACITOR
E6	TRANSFORMER WIRE #10
E7	N.C.
E8	N.C.
E9	TRANSFORMER WIRE #11
E10	BLUE WIRE TO RECEPTACLE TERMINAL BLOCK (N)
E11	WHITE JUMPER WIRE FROM AUXILIARY BOARD E13
E12	TRANSFORMER WIRE #9
E13	WHITE JUMPER WIRE FROM AUXILIARY BOARD E9
E14	N.C.
E15	RED WIRE TO FUSE HOLDER STUD
E16	TRANSFORMER WIRE #4A
E17	NEG BATTERY CABLE & WHT/BLK JUMPER TO E4 AUX. BD
E18	TRANSFORMER WIRE #1A
E19	BROWN WIRE TO OUTPUT TERMINAL BLOCK (L)
E20	BROWN JUMPER WIRE TO E4

50HZ, 230V INPUT 230V OUTPUT

E1	WHITE JUMPER WIRE FROM AUXILIARY BOARD E1
E4	BROWN JUMPER WIRE TO E20
E5	BLACK WIRE FROM THE CAPACITOR
E6	TRANSFORMER WIRE #10
E7	N.C.
E8	N.C.
E9	TRANSFORMER WIRE #12
E10	BLUE WIRE TO OUTPUT TERMINAL BLOCK (N)
E11	WHITE JUMPER WIRE FROM AUXILIARY BOARD E13
E12	TRANSFORMER WIRE #9
E13	WHITE JUMPER WIRE FROM AUXILIARY BOARD E9
E14	N.C.
E15	RED WIRE TO FUSE HOLDER STUD
E16	TRANSFORMER WIRE #4A
E17	NEG BATTERY CABLE & WHT/BLK JUMPER TO E4 AUX. BD
E18	TRANSFORMER WIRE #1A
E19	BROWN WIRE TO OUTPUT TERMINAL BLOCK (L)
E20	BROWN JUMPER WIRE TO E4

50HZ, 240V INPUT 240V OUTPUT

E1	WHITE JUMPER WIRE FROM AUXILIARY BOARD E1
E4	BROWN JUMPER WIRE TO E20
E5	BLACK WIRE FROM THE CAPACITOR
E6	TRANSFORMER WIRE #10
E7	N.C.
E8	N.C.
E9	TRANSFORMER WIRE #13
E10	BLUE WIRE TO RECEPTACLE TERMINAL BLOCK (N)
E11	WHITE JUMPER WIRE FROM AUXILIARY BOARD E13
E12	TRANSFORMER WIRE #9
E13	WHITE JUMPER WIRE FROM AUXILIARY BOARD E9
E14	N.C.
E15	RED WIRE TO FUSE HOLDER STUD
E16	TRANSFORMER WIRE #4A
E17	NEG BATTERY CABLE & WHT/BLK JUMPER TO E4 AUX. BD
E18	TRANSFORMER WIRE #1A
E19	BROWN WIRE TO OUTPUT TERMINAL BLOCK (L)
E20	BROWN JUMPER WIRE TO E4

E1	WHITE JUMPER WIRE TO MAIN POWER BOARD E1
E2	GREEN GROUND WIRE
E3	TRANSFORMER WIRE #1
E4	NEG BATTERY CABLE & WHT/BLK JUMPER TO E17 PWR. BD
E5	TRANSFORMER WIRE #4
E6	TRANSFORMER WIRE #5
E7	TRANSFORMER WIRE #6
E8	TRANSFORMER WIRE #12
E9	WHITE JUMPER WIRE TO THE POWER BOARD E13
E10	BROWN WIRE TO #4 TERMINAL ON RELAY
E11	TRANSFORMER WIRE #7
E12	N.C.
E13	WHITE JUMPER WIRE TO POWER BOARD E9
E14	BLUE WIRE TO #6 TERMINAL ON RELAY
E15	TRANSFORMER WIRE #8
E16	N.C.

E1	WHITE JUMPER WIRE TO MAIN POWER BOARD E1
E2	GREEN GROUND WIRE
E3	TRANSFORMER WIRE #1
E4	NEG BATTERY CABLE & WHT/BLK JUMPER TO E17 PWR. BD
E5	TRANSFORMER WIRE #4
E6	TRANSFORMER WIRE #5
E7	TRANSFORMER WIRE #12
E8	TRANSFORMER WIRE #6
E9	WHITE JUMPER WIRE TO THE POWER BOARD E13
E10	BROWN WIRE TO #4 TERMINAL ON RELAY
E11	TRANSFORMER WIRE #7
E12	N.C.
E13	WHITE JUMPER WIRE TO POWER BOARD E9
E14	BLUE WIRE TO #6 TERMINAL ON RELAY
E15	TRANSFORMER WIRE #8
E16	TRANSFORMER WIRE #11

E1	WHITE JUMPER WIRE TO MAIN POWER BOARD E1
E2	GREEN GROUND WIRE
E3	TRANSFORMER WIRE #1
E4	NEG BATTERY CABLE & WHT/BLK JUMPER TO E17 PWR. BD
E5	TRANSFORMER WIRE #4
E6	TRANSFORMER WIRE #7
E7	TRANSFORMER WIRE #5
E8	TRANSFORMER WIRE #6
E9	WHITE JUMPER WIRE TO THE POWER BOARD E13
E10	BROWN WIRE TO #4 TERMINAL ON RELAY
E11	TRANSFORMER WIRE #12
E12	TRANSFORMER WIRE #13
E13	WHITE JUMPER WIRE TO POWER BOARD E11
E14	BLUE WIRE TO #6 TERMINAL ON RELAY
E15	N.C.
E16	N.C.

E1	WHITE JUMPER WIRE TO MAIN POWER BOARD E1
E2	GREEN GROUND WIRE
E3	TRANSFORMER WIRE #1
E4	NEG BATTERY CABLE & WHT/BLK JUMPER TO E17 PWR. BD
E5	TRANSFORMER WIRE #4
E6	TRANSFORMER WIRE #6
E7	TRANSFORMER WIRE #5
E8	TRANSFORMER WIRE #7
E9	WHITE JUMPER WIRE TO THE POWER BOARD E13
E10	BROWN WIRE TO #4 TERMINAL ON RELAY
E11	TRANSFORMER WIRE #11
E12	TRANSFORMER WIRE #13
E13	WHITE JUMPER WIRE TO POWER BOARD E11
E14	BLUE WIRE TO #6 TERMINAL ON RELAY
E15	N.C.
E16	N.C.

E1	WHITE JUMPER WIRE TO MAIN POWER BOARD E1
E2	GREEN GROUND WIRE
E3	TRANSFORMER WIRE #1
E4	NEG BATTERY CABLE & WHT/BLK JUMPER TO E17 PWR. BD
E5	TRANSFORMER WIRE #4
E6	TRANSFORMER WIRE #6
E7	TRANSFORMER WIRE #5
E8	TRANSFORMER WIRE #7
E9	WHITE JUMPER WIRE TO THE POWER BOARD E13
E10	BROWN WIRE TO #4 TERMINAL ON RELAY
E11	TRANSFORMER WIRE #11
E12	TRANSFORMER WIRE #12
E13	WHITE JUMPER WIRE TO POWER BOARD E11
E14	BLUE WIRE TO #6 TERMINAL ON RELAY
E15	N.C.
E16	N.C.

DUAL DIMENSION TOLERANCE		APPROVED		BEST POWER TECHNOLOGY, INC.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		DRAWN BY: J. BALTUS DATE: 02/27/95		BOX 280 NECEDAH, WI 54646	
DECIMALS .XX ± .01 .XXX ± .005		CREATED BY: JTS 02/14/95		(800) 565-7200	
ANGLES ± .2°		ENGINEER: G.K. 02/14/95		TITLE: SYSTEM SCHEMATIC	
		STANDARDS ENGINEER: BB 02/16/95		FE 1.15-1.4 KVA	
		MANUFACTURING ENGINEER: SM 02/16/95		RACKMOUNT	
		QUALITY ASSURANCE: GAK 02/16/95		SIZE: D	
		PART NO.		DWG NO. D5465S01	
		SCALE: NONE		REV: B	
				SHEET 1 OF 2	

