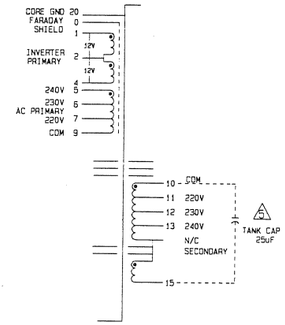
DWG NO.	SH	REV
D5463S01	1	B

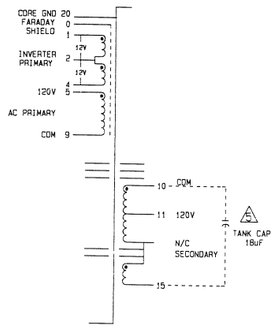
REVISIONS				
REV	DESCRIPTION	DATE	BY	CHKR / ENGR
A	RELEASE TO PRODUCTION	02/25/95	SJB	
B	SCHEMATIC CORRECTION PER ECR/N 3615	6/6/95	TMW	

TRANSFORMER DRAWING #1



850 VA 50HZ 220/230/240 IN/OUT

TRANSFORMER DRAWING #2



850 VA 60HZ 120 IN/OUT

TABLE 2

60HZ. 120V INPUT 120V OUTPUT

E1	N/C
E4	BROWN WIRE TO OUTPUT TERMINAL BLOCK (L)
E5	BLACK WIRE TO TANK CAPACITOR
E6	N/C
E7	N/C
E8	N/C
E9	TRANSFORMER WIRE #11
E10	BLUE WIRE TO OUTPUT TERMINAL BLOCK (N)
E11	BLUE WIRE TO RELAY
E12	TRANSFORMER WIRE #9
E13	BROWN WIRE TO RELAY
E14	TRANSFORMER WIRE #5
E15	RED WIRE TO FUSE HOLDER STUD
E16	TRANSFORMER WIRE #4
E17	NEGATIVE BATTERY CABLE
E18	TRANSFORMER WIRE #1
E19	N/C
E20	N/C

50HZ. 220V INPUT 220V OUTPUT

E1	N/C
E4	BROWN WIRE TO E20
E5	BLACK WIRE TO TANK CAPACITOR
E6	N/C
E7	N/C
E8	N/C
E9	TRANSFORMER WIRE #11
E10	BLUE WIRE TO OUTPUT TERMINAL BLOCK (N)
E11	BLUE WIRE TO RELAY
E12	TRANSFORMER WIRE #9
E13	BROWN WIRE TO RELAY
E14	TRANSFORMER WIRE #7
E15	RED WIRE TO FUSE HOLDER STUD
E16	TRANSFORMER WIRE #4
E17	NEGATIVE BATTERY CABLE
E18	TRANSFORMER WIRE #1
E19	BROWN WIRE TO OUTPUT TERMINAL BLOCK (L)
E20	BROWN WIRE TO E4

50HZ. 230V INPUT 230V OUTPUT

E1	N/C
E4	BROWN WIRE TO E20
E5	BLACK WIRE TO TANK CAPACITOR
E6	N/C
E7	N/C
E8	N/C
E9	TRANSFORMER WIRE #12
E10	BLUE WIRE TO OUTPUT TERMINAL BLOCK (N)
E11	BLUE WIRE TO RELAY
E12	TRANSFORMER WIRE #9
E13	BROWN WIRE TO RELAY
E14	TRANSFORMER WIRE #5
E15	RED WIRE TO FUSE HOLDER STUD
E16	TRANSFORMER WIRE #4
E17	NEGATIVE BATTERY CABLE
E18	TRANSFORMER WIRE #1
E19	BROWN WIRE TO OUTPUT TERMINAL BLOCK (L)
E20	BROWN WIRE TO E4

50HZ. 240V INPUT 240V OUTPUT

E1	N/C
E4	BROWN WIRE TO E20
E5	BLACK WIRE TO TANK CAPACITOR
E6	N/C
E7	N/C
E8	N/C
E9	TRANSFORMER WIRE #13
E10	BLUE WIRE TO OUTPUT TERMINAL BLOCK (N)
E11	BLUE WIRE TO RELAY
E12	TRANSFORMER WIRE #9
E13	BROWN WIRE TO RELAY
E14	TRANSFORMER WIRE #5
E15	RED WIRE TO FUSE HOLDER STUD
E16	TRANSFORMER WIRE #4
E17	NEGATIVE BATTERY CABLE
E18	TRANSFORMER WIRE #1
E19	BROWN WIRE TO OUTPUT TERMINAL BLOCK (L)
E20	BROWN WIRE TO E4

NOTES:

1. WIRE COLORS WILL VARY FOR INPUT AND OUTPUT WIRING.
   50 HZ USES BLK AND RED FOR HOTS, WHT FOR NEUTRAL, AND GRN/YEL FOR GND.
   60 HZ USES BRN FOR HOTS, BLU FOR NEUTRAL, AND GRN/YEL FOR GND.
2. BECAUSE OF THE NUMEROUS RECEPTICAL OUTPUT WIRING OPTIONS OF THIS UNIT THEY WILL NOT BE SHOWN ON THIS SYSTEM SCHEMATIC. SEE THE TECHNICAL REFERENCE MANUAL.
3. NUMBERS IN BOXES REPRESENT TRANSFORMER LEAD NUMBERS WHICH DO NOT CHANGE. SOME TRANSFORMERS DO NOT USE ALL LEADS.
4. ONLY ONE (1) OF THESE OPTIONS ARE USED.
5. 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 5%. THE MAIN GOAL TRYING TO BE ACHIEVED IS TO COME AS CLOSE TO THE REQUIRED CAPACITANCE FOR THE FERRO TRANSFORMER AS POSSIBLE.

DUAL DIMENSION TOLERANCE

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:

DECIMALS
.XX = +/- .02
.XXX = +/- .010

ANGLES
+/- 2°

UNLESS OTHERWISE SPECIFIED DIMENSIONS IN [ ] ARE MILLIMETERS. TOLERANCES ARE:

MILLIMETERS
.X = +/- .5
.XX = +/- .25

ANGLES
+/- 2°

DO NOT SCALE DRAWING

APPROVED		
		DATE
DRAWN BY:	BRIAN J. BALTUS	02/25/95
CHECKED BY:	JTS	03/14/95
ENGINEER:	G.K.	03/14/95
STANDARDS ENGINEER:	SB	03/14/95
MANUFACTURING ENGINEER:	SM	03/15/95
QUALITY ASSURANCE:	GAK	03/15/95
PART NO.		

BEST POWER TECHNOLOGY, INC.
BOX 280 NECEDAH, WI 54646
(608) 565-7200

TITLE: SYSTEM SCHEMATIC FE 850VA RACKMOUNT

SIZE	DWG NO.	REV
D	D5463S01	B

SCALE: NONE

HARDWIRE TERMINAL BLOCK (OPTION)

TERMINAL BLOCK

CAPACITOR — L OUTPUT D
CAPACITOR — N OUTPUT C
L INPUT B
CAPACITOR — N INPUT A

LINE CORD (OPTION)

LINE
NEU
BRN (BLK)
GRN/YEL
BLU (WHT)

BLU (WHT)
BRN (BLK)
GRN/YEL
BLU
BRN

LINE RELAY
N
L

BACKFEED RELAY DRIVER BOARD PCF-XXXX
J1
BRN
BLU
WHT/BRN
WHT/BLU

RECEPTACLE OPTIONS
SEE NOTE 1 2

BRN (BLK)
BLU (WHT)
REFER TO DWG# D5463S01 SHEET #1 TABLE #2 FOR WIRING OPTIONS

PFM BOARD PCP-XXXX
E3 E4 E2 E5
E1 E6
BLU
WHT
RED
BLK
WHT/BLU
WHT/BLU

PFM CAP

PFM RESISTOR

FAN
WHT/GRN
WHT/GRN

TANK CAPS

REFER TO DWG# D5463S01 SHEET #1 TABLE #2 FOR WIRING OPTIONS

REFER TO DWG# D5463S01 SHEET #1 TABLE #2 FOR WIRING OPTIONS

MAIN FERRO TRANSFORMER
TRN-XXXX
5 6 7 8 9
AC INPUT WINDING LEADS (IF APPLICABLE)
20 FARADAY SHIELD
10 11 12 13 15 AC OUTPUT WINDING LEADS (IF APPLICABLE)
0 XFMR GND
INVERTER WINDING LEADS 1 2 4

(GND STUD IN UNIT)

LOGIC BOARD PCL-XXXX
J14 J7 J13 J12 J17 J6 J10 J5 J9 J8 J3 J15 J16 J1 J4 J11 J2
EXPANSION PORT N/C
ME/FD JUMPER
AUX N/C
ROM JUMPER 512 256
LED BOARD N/C
RAM BATTERY JUMPER
BACK PANEL ALARM SWITCH
BOARD FREQ.
PHONE JACK (REMOTE) N/C
SCSI
REAR PANEL COMMUNICATIONS PORT
AUX POWER N/C
AMB. TEMP
PFC TEMP (MOUNTED ON PFM RESISTOR)
REFER TO DWG# D5463S01 SHEET 1 TABLE #2 FOR WIRING OPTIONS

POWER BOARD/ INVERTER HEATSINK ASSEMBLY PCP-XXXX
E13 E11 E9 E7 E5 E12 E6 E14 E10 E19 E4 E20 E18 E16 E8
J3 J1 J2

EXTERNAL BATTERY (OPTIONAL)
ANDERSON CONNECTOR
CAP

WHT/BLU
WHT/BLU
ON/OFF
UNIT POWER SWITCH

E15 RED
E17 BLK
FUSE
BLK
BLK

BATTERY

INTERNAL BATTERY (STANDARD)