

## SPECIFICATIONS

### Power Supply Section

#### Input voltage

AC 120 V/220 V or  
220 V/240 V  $\pm 10\%$ ,  
50/60 Hz

#### Output voltage

DC 13.8 V (Standard voltage)

#### Output current

20 A (intermittent Load 50 %  
duty cycle)

#### Continuous load current

15 A max (inclusive of exter-  
nal output terminal)

#### Output voltage fluctua- tion

Within  $\pm 0.7$  V at AC 120 V,  
220 V, 240 V  $\pm 10\%$  (Load  
current : 15 A)

(No. load output voltage : less  
than 16 V at 120 V, 220 V,  
240 V)

#### Ripple voltage

Less than 20 mV (rms), out-  
put current 15 A

#### Power consumption

Approx. 470 W at AC 120 V,  
220 V, 240 V (Load current :  
20 A)

### General

#### Dimensions

180 (7'-1/16) W  $\times$  133  
(5'-1/4) H  $\times$  287  
(11'-5/16) D mm (inch)

#### Weight

Approx. 8.9 Kg (19.6 lbs)

Circuit design and ratings are  
subject to change for improv-  
ement without notice.

# PS-30

## SPECIFICATIONS

### Power Supply Section

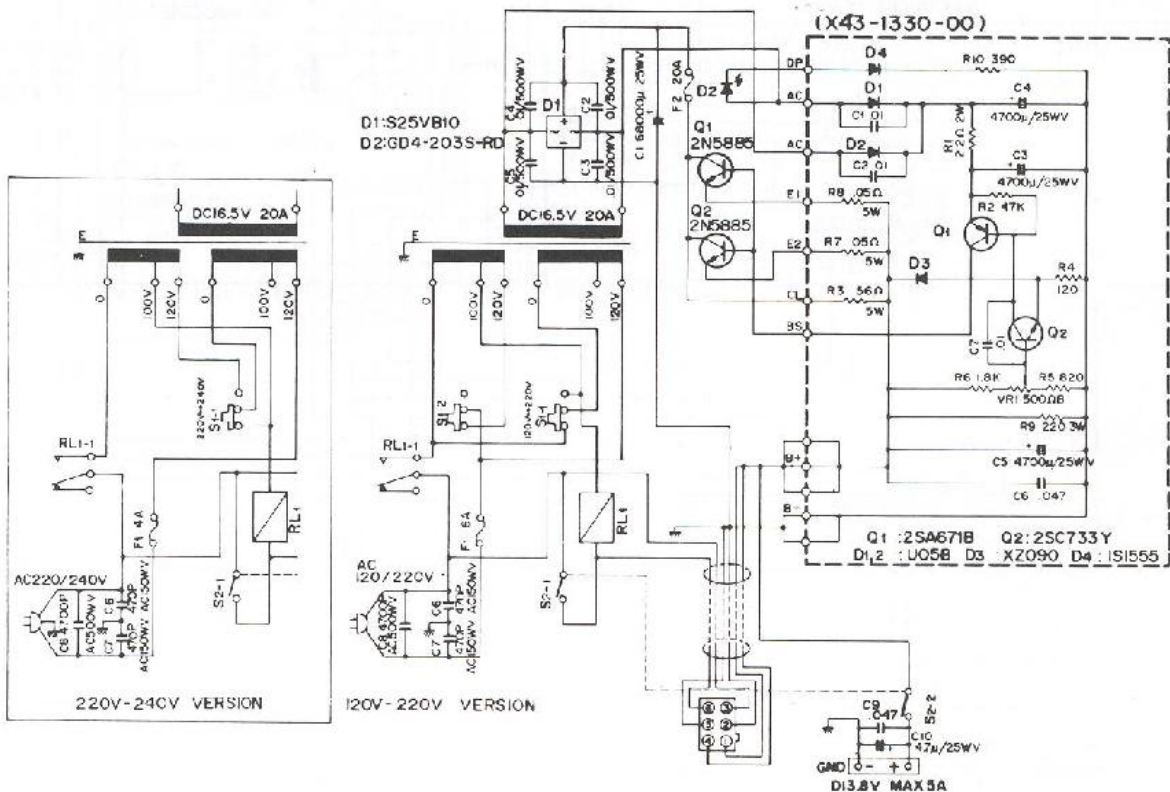
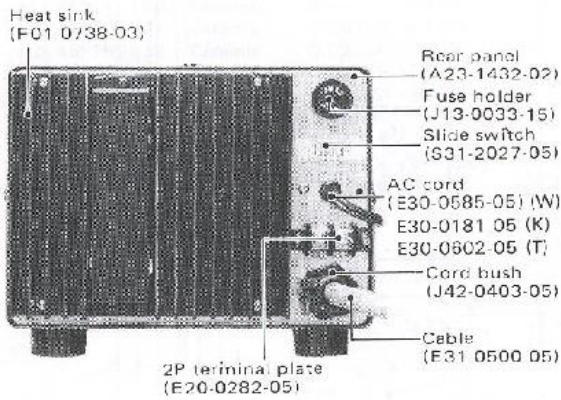
Input voltage	AC 120 V/220 V or 220 V/240 V $\pm 10\%$ , 50/60 Hz
Output voltage	DC 13.8 V (Standard voltage)
Output current	20 A (intermittent Load 50 % duty cycle)
Continuous load current	15 A max (inclusive of external output terminal)
Output voltage fluctuation	Within $\pm 0.7$ V at AC 120 V, 220 V, 240 V $\pm 10\%$ (Load current : 15 A) (No. load output voltage : less than 16 V at 120 V, 220 V, 240 V)

Ripple voltage	Less than 20 mV (rms), output current 15 A
Power consumption	Approx. 470 W at AC 120 V, 220 V, 240 V (Load current : 20 A)

<b>General Dimensions</b>	180 (7"-1/16) W x 133 (5"-1/4) H x 287 (11"-5/16) D mm (inch)
<b>Weight</b>	Approx. 8.9 Kg (19.6 lbs)

Circuit design and ratings are subject to change for improvement without notice.

## OUTSIDE VIEWS



# PS-30/SP-180 PARTS LIST

## GENERAL

## PS-30

Ref. No.	Part No.	Description	Re- marks
<b>GENERAL</b>			
C1	C90-0813-05	Electrolytic 68000 $\mu$ F 25V	☆
C2~5	CK45E2H103P	Ceramic 0.01 $\mu$ F +100% -0%	
C6,7	C90-0300-05	Ceramic 470pF AC150V	
C8	C90-0412-05	Ceramic 4700pF AC500V	
C9	CK45F1H473Z	Ceramic 0.047 $\mu$ F +80% -20%	
C10	CE04W1E4R7	Electrolytic 4.7 $\mu$ F 25V	
Q1,2	V08-1012-06	Transistor 2N5885	☆
D1	V11-1365-06	Diode S25VB10	☆
-	V11-7260-56	LED GD4-203S-RD	
-	S31-2027-05	Slide switch	
-	S36-2402-05	Seesaw switch Power	
RL1	S51-1406-05	Relay	☆
-	A01-0746-12	Case (upper)	☆
-	A01-0755-02	Case (lower)	☆
-	A20-2363-03	Front panel (T)	☆
-	A20-2364-03	Front panel (K)(W)	
-	A23-1432-02	Rear panel (K)	☆
-	A23-1433-02	Rear panel (W)(T)	
-	B46-0058-00	Warranty card (K)	
-	B50-2652-10	Operating manual (K)(W)	☆
-	B50-2656-00	Operating manual (T)	☆
-	E20-0282-05	2P Terminal plate	
-	E22-0207-05	Lug plate	
-	E30-0181-05	AC cord with plug (K)	
-	E30-0585-05	AC cord with plug (W)	
-	E30-0602-05	AC cord (T)	
-	E31-0500-05	Power cord with plug	☆
-	F01-0738-03	Heat sink	☆
-	F05-2035-15	Fuse (20A)	☆
-	F05-6021-05	Fuse (6A) $\times$ 2 (K)	
-	F05-4022-05	Fuse (4A) $\times$ 2 (W)(T)	
-	H01-2624-04	Carton case (inside) (K)(W)	☆
-	H01-2625-04	Carton case (inside) (T)	☆
-	H03-1711-04	Carton case (outside) (T)	☆
-	H03-1712-04	Carton case (outside) (K)	☆
-	H03-1726-04	Carton case (outside) (W)	☆
-	H10-2523-02	styren foam cushion (F)	☆
-	H10-2524-02	Styren foam cushion (R)	☆
-	H12-0455-04	Cushion	☆
-	H20-0413-03	Protective cover	☆
-	H25-0029-04	Protective bag 60 $\times$ 110	
-	J02-0049-14	Leg $\times$ 6	
-	J13-0033-15	Fuse holder	
-	J19-0509-04	LED holder	
-	J32-1030-14	Round boss $\times$ 2	
-	J41-0006-05	Cord bush (K)	
-	J41-0024-15	Cord bush (W)(T)	
-	J42-0403-05	Cord bush (W)(T)(K)	
-	J61-0019-05	Vinyle tie	
-	L01-8066-15	Power transformer	☆
-	X43-1330-00	AVR unit	☆

## AVR Unit (X43-1330-00)

Ref. No.	Parts No.	Description	Re- marks
<b>CAPACITOR</b>			
C1,2	CK45F1H103Z	Ceramic 0.01 $\mu$ F -80, -20%	
C3~5	C90-0814-05	Electrolytic 4700 $\mu$ F 25V	☆
C6	CK45F1H473Z	Ceramic 0.047 $\mu$ F +80, -20%	
C7	CK45F1H103Z	Ceramic 0.01 $\mu$ F +80, -20%	
R2~10	RD14BB2E000J	Carbon resistor 000 $\Omega$ $\pm$ 5% 1/4W	
R1	RS14GB3D2R2J	Metal film 2.2 $\Omega$ $\pm$ 5% 2W	
R3	R92-0622-05	Cement 56 $\Omega$ 5W	☆
R7,8	R92-0619-05	Cement 50m $\Omega$ 5W	☆
R9	RS14GB3F221J	Metal film 220 $\Omega$ $\pm$ 5% 3W	
VR1	R12-0042-05	Semi fixed resistor 500 $\Omega$ (B)	
<b>SEMICONDUCTOR</b>			
Q1	V01-0139-05	Transistor 2SA671TDB	
Q2	V03-0183-05	Transistor 2SC733(Y)	
D1,2	V11-0270-05	Diode U05B	
D3	V11-4167-06	Zener diode XZ-090	
D4	V11-0076-05	Diode 1S1555	

## SP-180

### TOTAL ☆: New Parts

		<b>RESISTOR</b>		
R1	RS14AB3D8R2J	Solid 8.2 $\Omega$	$\pm$ 5% 2W	
R2	RD14BB2E101J	Carbon 100 $\Omega$	$\pm$ 5% 1/4W	
<b>FILTER/SWITCH</b>				
L1	L79-0443-25	Filter		
S1	S42-3401-05	Push switch		☆
S2	S40-2414-05	Push switch		☆
<b>MISCELLANEOUS</b>				
-	A01-0750-03	Case (TOP)		☆
-	A01-0751-02	Case (BOTTOM)		☆
-	A20-2358-05	Panel (T)		☆
-	A20-2359-15	Panel (K) (W)		☆
-	B46-0058-00	Warranty card (K)		
-	B50-2664-00	Operating manual (K) (W)		☆
-	B50-2665-00	Operating manual (T)		☆
-	E11-0404-05	Headphone jack		☆
-	E12-0001-05	Phone plug		
-	E13-0361-05	3P pin jack		
-	E14-0101-05	1P pin plug $\times$ 2		
-	G53-0509-04	Packing $\times$ 6		
-	G53-0502-04	Packing $\times$ 2		
-	H01-2630-04	Carton case (K)(W)		☆
-	H01-2631-04	Carton case (T)		☆
-	H10-2523-02	Front packing fixture		
-	H10-2525-02	Rear packing fixture		
-	H20-0276-03	Protective cover		
-	H25-0049-03	Plastic bag		
-	K29-0716-04	Push knob $\times$ 4		
-	T06-0011-05	Speaker		