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	3 May 1960
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Attention:	50X1
Gentlemen:	
power supplies designated AP-3 areceive a technical proposal and plus fixed fee basis for this proposal are controlled to the proposal are controlled to th	copies of Specification No. 60-A- the design and development of two and PS-10. We would be pleased to cost quotation from you on a cost coject.
to the undersigned or his representation	entative not later than 20 May 1960.
Contract negotiation notification to 17 June 1960. No other notification be given.	cation, if any, will be made prior ication either written or verbal will
shown only to personnel cleared	etter, although UNCLASSIFIED, be with this organization, and contacts ions be limited to these same persons.
At the time of submitting the not elect to submit a proposal, proposal, to the above address.	he requested proposal, or if you do please return this letter and enclosures
	Very truly yours. 50X1
Enclosures: Specification No. 60-A-1116-A	(3 copies)
ORIGINAL CL BY 235979 DECL REVW ON 12/03/2010 EXTEYND 8 YRS BY 5AME REASON 3 d (3)	BOC REV DATE 12 MAR BY 064540 URIG COMP 056 OPI 56 TYPE 01 URIG CLASS 17 PAGES 17 REV CLASS C JUST 22 NEXT REV 2010 AUTUS HA TOU
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DEVELOPMENT SPECIFICATION
FOR THE
AP-3 AND PS-10 POWER SUPPLIES

110

DATED: 29 April 1960

1. SCOPE

This specification covers the requirements for two AC power supplies designated AP-3 and PS-10. These power supplies are to be identical in electrical characteristics, but will differ in size and weight.

2. JAN SPECIFICATIONS

The JAN Specifications, of the issue in effect on date of invitation for bids, form a part of this specification. Where the requirements of JAN Specifications and this specification conflict, requirements of this specification shall govern.

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2.1. JAN Specification Waiver

The contractor may, due to cost or time, ask for waivers to JAN Specifications. Such specific waivers may be authorized by the Government, but only after review by Government engineers and prior to submission of the prototype model.

3. GENERAL SPECIFICATIONS

3.1. Operating Temperatures

The AP-3 and PS-10 shall be capable of operation without malfunction at ambient temperatures of -20°C to +50°C.

3.2. Storage Temperatures

The power supplies shall be capable of being stored for extended periods of time without injurious effects at temperatures of -60°C to +60°C.

3.3. Non-Fungus Nutrient Materials

Materials which are used in the AP-3 and PS-10 shall be non-nutrient. If non-nutrient materials are not available, a suitable protection against fungi may be used. However, permission must be granted by the Government prior to using any protecting agent.

present the control

3.4. Size and Weight

3.4.1. AP-3

The AP-3 shall be packaged in a metal case with the dimensions of $2\frac{1}{2} \times 5 \times 6$ inches or smaller with self-contained AC power cord. The weight of the AP-3 shall not exceed 8 pounds.

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3.4.2. PS-10

The paramount consideration in the design of the PS-10 shall be minimum unit cost consistent with reliable operation and sound workmanship. The volume of the PS-10 shall not exceed 200 cubic inches and the maximum weight shall not exceed 15 pounds. The PS-10 shall be packaged in a metal protective case with a single handle for ease of transporting.

3.4.3. Color

The cases of the AP-3 and PS-10 shall be a non-reflective black.

4. ELECTRICAL SPECIFICATIONS

4.1. Duty Cycle

The AP-3 and PS-10 shall be capable of delivering full power continuously for one hour at a 50% load cycle.

4.2. Input

The input voltages to the AP-3 and PS-10 shall be 70 to 270 volts AC, 50 to 400 cycles. Voltage selection shall be accomplished by a multi-position tap switch or variac which includes an off position.

4.2.1. Variations in Input

The AP-3 and PS-10 shall meet the output requirements listed in 4.3 with a line variation of $\pm 10\%$.

4.2.2. Circuit Breaker Protection

Both power supplies shall have circuit breaker protection.

Output

The output from the AP-3 and PS-10 shall be 12 volts DC with a voltage regulation of $\pm 5\%$. The total current drain from the power-supplies will be 8 amperes. One ampere shall have a ripple content not to exceed 1%, the remaining 7 amperes shall have a ripple content not to exceed 5%.

4.3.1. Output Connector

The output discussed in 4.3 will be brought out through a recessed Cannon DE-9 connector. Pin connections and location of this connector will be specified after award of contract.

4.4. Battery Charging

In addition to the output discussed in 4.3, the power supplies shall have an output capable of charging a 5 ampere-hour, 12-volt nickel-cadmium battery in a two hour period. It is preferred to have a constant voltage source of 15 volts with a current limiting resistor to limit the initial charging current to 8 amperes.

4.5. Indicating Meter

Both power supplies shall have a miniature meter to show proper output. The meter face may be painted yellow for too low an output, green for desired output, and red for too high an output for normal operation. For battery charging the meter shall be switched across the current limiting resistor described in 4.4 and the meter may then be used to monitor the state-of-charge of the battery.

4.6. Controls

The AP-3 and PS-10 shall have only the controls necessary to select input voltages, to switch the indicating meter from normal operation to battery charging, and the circuit breaker discussed in 4.2.2.

ATTACHMENT A

DELIVERABLE ITEMS

Item	Item Description	Quantity	Ĭ,
1	Prototype AP-3 One prototype shall be delivered for Government inspection and evaluation and after acceptance of this unit the other 9 prototypes shall be fabricated.	10 Test p	mposis
. S	Prototype PS-10 Delivery of the PS-10 prototypes shall be the same as Item 1.	10 Test per	posis
3	Engineering Drawings for Items 1 and 2 Reproducible Master Set Copies	1 each 2 each	
4	Instruction Manuals The operation of the AP-3 and PS-10 may be combined in a single manual.	25	

Production quantities would go out for competitive bil a would run from 100-200 per per contract. The no. of contracts could be any number.

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ITEM .	PART NUMBER	DESCRIPTION .	PER	TOTAL REQ.	ISSUED	PRICE	AMOUNT	SHORT	PO.#	DATE REQ	DATE DUE	***	COMP. REQ.
	Cl	CAPACITOR, ELECTROLYTIC, SOURCE SAFE-T-MIKE CHL-186M-TAX		12		2,89	34,68	3	chy to	aut			
	C2	CAPACITOR, ELECTROLYTIC, 1500MFD, 28 volts, computer grade SOURCE SAFE-T-MIKE CA-281M5X-LA	1	//		2.26	24.86	3	(100				
	C3	CAPACITOR, ELECTROLYTIC, BMFD, 25 volts SOURCE Illinois Condenser Co SMT825	1	7		.59	4,13						
	· C4	DAPACITOR, PAPER, D.02MFD, 200 volts SOURCE Aerovox P123ZP, w/plastic sleeving	1				9						
	Rl	RESISTOR, 36.5K ohms, 1/2W, 2% deposited carbon SOURCE Fexas Instruments Co. CD2PR(RN15%	1						1.0	b			•
	R2	RESTSTOR, CARBON, 1.8% ohms, 1/2W, 10% SOURCE Allen Bradley	1					11	00.00				
	R3	RESISTOR, CARBON, 680 ohms, 1/2W., 10% SOURCE Allen Bradley	1										
	R4	RESISTOR, CARBON, 1 K ohms, 1/2W, 10% SOURCE Allen Bradley	1									1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	ر
	R5	RESISTOR, WIRE WOUND, 700 ohm, 3W SOURCE Ohmite 4417 RESISTOR, WIRE WOUND	1										
	R6	100 ohms, 3W source Phmite 4392	1									5	0X1
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	R7	RESISTOR, WIRE 150 ohms, 3 wa SOURCE Ohmite 4396	tts			1		,								
	R8	Ohmite 4396 RESISTOR, WIRE 400 ohms, 3 was SOURCE Ohmite4408	tts			1				_						
	R9	POTENTIOMETER, 100 ohms SOURCE Bourns Co. 200	L-1-101			1	. 9		4.50	40,50						2
	R9*	POTENTIOMETER, 100 ohms SOURCE Bourns Co., 20	00P-1-101			1	7		4,50	3/.50					*USE ON PRINTED CIRCUIT BOARD	
	R10	POTENTIOMETER, 5000 ohms SOURCE Bourns Co., 20	001-1-502			1		-								43
	R10*	POTENTIOMETER, 10 K ohms SOURCE Bourns Co., 20		200P -1	-1 03	1	3		4,50	13,50	-				*USE ON PRINTED CIRCUIT BOARD	
	Rll	NOT USE		-												
		SOURCE											-			
	T1 122 – 0050	TRANSFORMER,				1	10		48.60	486.00						
		CORD & PLUG SI 2 by 22AWG, f	ET, 2-pron lexible,4	g net, ft. lo	ong	1										
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ITEM +	PART NUMBER	DESCRIPTION	PER UNIT	TOTAL	ISSUED	PRICE	AMOUNT	SHORT	P.O. #	DATE REQ.	DATE DUE	COMP. REQ.
	CR1 thru CR4	RECTIFIER DIODE SOURCE Westinghouse 1N1200	4	40		3.60	144.00					·
	CR5	ZENER DIODE, 6.8 volts SOURCE Internl. Rectifier Corp.1N1510	1	3		3,45	10.35	-				
	CR6	RECTIFIER DIODE SOURCE Pacific Semicond. Torp. PS060	1	4		4,75	19.00					
	Q1	TRANSISTOR, POWER SOURCE Motorola 2N174	1	12		8.60	103.20					
	Q2, Q3	TRANSISTOR SOURCE Motorols 2N1038	2									
-	CBl	CIRCUIT BREAKER, THERMAL, 2 AMP SOURCE Klixon 7274-1-2	1	10		9.00	90,00					
	CB2	CIRCUIT BREAKER, THERMAL, 3 AMP SOURCE Klixon 7274-1-3	-	10		8.40	84.00					
	CB3	CIRCUIT BREAKER, THERMAL, 5 AMP SOURCE Klixon 7274-1-5 VOLTMETER, DC, 0-10 volts, with	1	10		8,40	84.00			,		
	V	VOLTMETER, DC, 0-10 volts, with special dial per dwg. 122-0017 SOURCE DeJur-Amsco, Model 102 SWITCH, S.P., 12-position min.,	1	8		2355	188.40					
	SWl	SWITCH, S.P., 12-position min., non-shorting, rotary type w/stop SOURCE Janco Co. Series 1905	1	9		5,36	48,24					
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		CONNECTOR, 9- SOURCE Cannon DE9-S		t	1										
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	T1 122 – 0050C	TRANSFORMER, POWER SOURCE	PER UNIT	TOTAL REQ.	ISSUED	48.60	486.00					
		CORD & PLUG SET, 2 prong net, 2 by 22AWG, flexible, 4' long SOURCE	1									'
	CR1 thru CR4	RECTIFIER DIODE SOURCE Westinghouse 1N1200	4	52		3.60	187.20					
	CR5	ZENER DIODE, 6.8 volts source I.R.C. 1N1510	1									
	CR6	RECTIFIER DIODE SOURCE Pacific Semicond. Corp. PS060	1									•
	Ql	TRANSISTOR, POWER SOURCE Motorola 2N174	1				,					
	Q2, Q3	TRANSISTOR, SOURCE Motorola 2N1038	2									
	CB1	CIRCUIT BREAKER, THERMAL, 2 AMP SOURCE Klixon 7274-1-2	1	11		9.00	99.00					
-	CB2	CIRCUIT BREAKER, THERMAL, 3 AMP SOURCE Klixon 7274-1-3	1	7		9.00	63.00					
	CB3	CIRCUIT BREAKER, THERMAL, 5 AMP SOURCE Klixon 7274-1-5	1	10		9,00	90,00					
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	Cl	CAPACITOR, ELECTROLYTIC 6000MFD, 18V, computer grasource SAFE-T-MIKE CHL-186M-TAX	ıde	1	12		2.89	34,68						
	C2	CAPACTTOR, ELECTROLYTIC 1500MFD, 28V, computer grasource SAFE-T-MIKE CA-281M5X-LA	.de	1	10		2.26	22.60						
	C3	CAPACITOR, ELECTROLYTIC 8MFD, 25V SOURCE Illinois Condenser Co. SMT	1825	1										3
	C4	CAPACITOR, PAPER, 0.02MFD, source Aerovox P123ZR (w/plastic s	aleevin	1										
	Rl	RESISTOR, 36.5K ohms, 1/2W, deposited carbon SOURCE Texas Instr. Co.	2%	1									-	•
	R2	RESISTOR, CARBON 1.8K ohms, 1/2W, 10% SOURCE Allen Bradley		1							-			
	R3	RESISTOR, CARBON 690 ohms, 1/2W, 10% SOURCE Allen Bradley		1										
	R4	RESISTOR, JAMESON, 1 K ohms, 1/2W, 10% SOURCE Allen Bradley		1										
	35	RESISTOR, WIRE WOUND 700 ohms, 3W SOURCE Ohmite 4417		1										
	R6	RESISTOR, WIRE WOUND 100 ohms, 3W SOURCE Ohmite 4392		1										
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	R7	RESISTOR, WIRI 150 ohms. 3W SOURCE Ohmite 4396				1										
	R8	AESISTOR, WIRE 400 ohms, 3W SOURCE Ohmite 4408				1										
	R9	POTENTIOMETER 100 ohms SOURCE Bourns Co. 200	DL-1-101			1	13		4.50	58.50						5
	R9*	POTENTIOMETER 100 ohms SOURCE Bourns Co. 200 POTENTIOMETER	· ,			1									*USE ON PRINTED CIRCUIT BOARD	
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·	R10*	POTENTIOMETER 10Kohms SOURCE Bourns Co. 200				1									*USE ON PRINTLI CIRCUIT BOARD	
	Rll	SOURCE														
	SW1	SWITCH, SP, 12- non-shorting, SOURCE Janco Co. Seri	rotary ty	minatu pe w/s	tor	1	9		5,36	48.24						
		CONNECTOR, 9- SOURCE Cannon DE9-S	-pin socke	et	-	1										
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	V	VOLTMETER, 0- w/ spec dial SOURCE Simpson, Mode		in. 123 – 00	107 -	1	5	.55520	2,23							
		WIRE, No.22 A	WG					Jola		2,5%.13				-		
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	<u> </u>		Declass	ified in F	Part - Sar	nitized Č	ору А	pprove	ed for F	Releas	e 2014	1/05/08 :	CIA-RE)P78-03	330A00	4200080	001-2)F	K ORD	ER	

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ITEM	PART NUM	IBER	DES	CRIPTION			PER UNIT	TOTAL REQ.	ISSUED	PRICE	AMOUNT	SHORT	P.O. #	DATE REQ.	DATE DUE	COMP. REQ.
	122A-00	02	Cover, Asse	mbly and l	Detail	•	-	8		432	34.57					
	122A-00	02-1	Cover - Shee	et .			1									
	122A-00	02-2	Door Cover	- Sheet			1									
	122A-000	02-3	1/2" Hinge -	4'' Lg.			1							-		
	122A-00	02-4	Latch SOURCE ''DZUS''				1					·				•
	122A-000	02-6	Handle SOURCE													
CON	122A-00	02-8	Retaining Ring SOURCE				1									
CONFIDENTIAL	122A-00	02-9	.312 I.D. X Thk., Mica V	Washer			1									8
TAIŢI	122A - 00	03	Box for Input Assembly an SOURCE	ıt Wir	es		20		156	11.20					CONFIDENTI	
	122A-00	03-1	Box source Moorlee Mfg	. Co., M	T-112		Half of Box									ATIAL
				DATE	APP	DATE			THIS SH		1				MODE	EL
REVISED						├	E	SKOUGH	TOTA		 	-				
REVISED		Declassi	fied in Part - Sanit	ized Copy A	pprove	d for F	Releas	se 2014			DP78-03	330A00	4200080	001-2)F	QUANTIT	Y50X1

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	a							I QUANTITIES COST					ı	1	1 1		1
ITEM	PART N	UMBER	DESCRIPTION			PER UNIT	TOTAL	ISSUED	PRICE	AMOUNT	SHORT	P.O. #	DATE REQ.	DATE DUE		COMP. REQ.	
	122A-0004		Clamp Input Capacitor SOURCE				-	P		156	4.48						
	122A-0005		Bracket, C.B. Mtg.			_	9		2.16	19.44							
	122A - 0006		Plate, Meter			-	11		الدى	5.G4						5	
	122A-0007		Bracket - Switch Mtg. source				-	9		·57£	4.86						
	122A-0008		Heat Sink, AP-3 (Aluminum)				1	11		1.56	17.16						,
	122A-0010		Chassis - M (Outside Fa source Reference	arking ce)			_				189.0.						
CONF	122A-0012		Insulator - Heat Sink, Mica .002 SOURCE Thk.			1											
CONFIDENTIAL	122A-0013		Knob, Knurled			1									<u>C</u> ON		
AL	122A-0000-11		#2-56 X 3/32 Lg. Cup Point Set Screw, Black Oxide				-									FIDEN	
	122A-0	0017	Dial, for Meter				1									TIAL.	
						DATE	TOTAL THIS SHEET				1			MODE			
COMPILED BY REVISED BY						E	BROUGHT FORWARD TOTAL				4				<u> </u>		
REVISED					 	+			***************************************		<u> </u>	1		,	QUANTIT'	Y	50X1
		Declass	، sified in Part - San	itized Copy /	Approv	ed for	Relea	se 2014	4/05/08 :	ĈĨA-RI	DP78-03	330 <u>A0</u> 0	4200080	001-2 ⊦F	K ORDEI	R	<u> </u>