



SUPER SIMPLE PS FOR BATTERY RADIOS.
(84V B+ and 1.4V A+)

MODIFIED 11/09/03 FOR REGULATED B+.

UPDATED FOR BOARD 2/15/04 (FARMPS-1).
REV A, 2/2/05

ALL RESISTORS 1/2W
5% CF UNLESS NOTED.

ALL 0.1/F CAPS ARE 15mm SPACING "SAFETY" RATED EMI CAPS.

REV A: ADJUSTED VALUES
ADDED I-LIM ON B+.
ADDED 6V PAD.

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Proprietary Information		
Title	Line Power Supply for Battery Radios.	
Size	Document Number	REV
B	FARMPS-1	A
Date:	February 19, 2005	Sheet 1 of 1

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Table 1: FarmPS1 Parts List, Kit Assembly, Rev A Schematic

ITEM	QUAN	DESIGNATOR	DESCRIPTION	Digi-Key Catalog #	Mouser Catalog #
1	5	C1,C5,C6,C10,C11	0.1 μ F/15mm EMI Capacitor	495-1389	
2	2	C2,C3	2200 μ F/16V Aluminun Radial	P10257	
3	1	C4	1000 μ F/6.3V Aluminun Radial	P10199	
4	3	C7,C8,C9	22 μ F/250V Aluminun Radial	P5911	
5	2	CR1,CR2	BZX55C12, 12V Zener		BZX55C12
6	1	CR3	1N5377B, 91V 5W Zener	1N5377B	
7	2	CR4,CR5,CR7,CR8	EGP20D, 2A 200V Fast Diode		EGP20D
8	1	CR6	LED, Blinking	67-1499	
9	1	XF1	Fuse Holder, 5x20mm	4527K	
10	4	CR9,CR10,CR11,CR12	HER105, high efficiency rect	HER105	
11	1	F1	1/8A, slow blow	WK5028	
12	1	J1	IEC receptacle	Q220	
13	1	L1	CM FILT, 16mH	PLK1157	
14	1	Q1	2N6517 or MPSA42		2N6517
15	1	Q2	IRFS710B N-channel Mosfet		IRFS710B
16	2	R1,R8	47 Ω , 1/2W CF, 5% Resistor		293-47
17	1	R2	62 Ω , 1/2W CF, 5% Resistor		293-62
18	1	R3	0 Ω jumper (wire or resistor)		291-0
19	2	R4,R5	47k Ω , 1/2W CF, 5% Resistor		293-47k

