

Part	Value	Digikey PN	Notes	Cost
U1	LM3524D	LM3524DN-ND	SMPS PWM IC	\$1.46
U2	LM339N	LM339NNS-ND	Quad Comparator	\$0.49
Q1	2N3904	2N3904-ND	Gen Purpose NPN	\$0.23
Q2	2N3904	2N3904-ND	Gen Purpose NPN	\$0.23
Q3	2N3906	2N3906-ND	Gen Purpose PNP	\$0.26
Q4	2N3906	2N3906-ND	Gen Purpose PNP	\$0.26
Q5	IRFI3205	IRFI3205-ND	.008 Rds On, 55 Volt TO-220 Fullpack N-Ch MOSFET	\$6.36
Q6	IRFI3205	IRFI3205-ND	.008 Rds On, 55 Volt TO-220 Fullpack N-Ch MOSFET	\$6.36
Q7	2N3904	2N3904-ND	Gen Purpose NPN	\$0.23
Q8	2N3906	2N3906-ND	Gen Purpose PNP	\$0.26
Q9	2N3904	2N3904-ND	Gen Purpose NPN	\$0.23
D1	RED LED T1-3/4	P300-ND	Red LED (Low Battery LED)	\$0.22
D2	GRN LED T1-3/4	P303-ND	Green LED (Supply Enabled LED)	\$0.22
D3	1N4148	1N4148DICT-ND	Gen Purpose Diode	\$0.23
D4	1N4148	1N4148DICT-ND	Gen Purpose Diode	\$0.23
D5	1N4148	1N4148DICT-ND	Gen Purpose Diode	\$0.23
D6	1N4148	1N4148DICT-ND	Gen Purpose Diode	\$0.23
D7	Dual Diode	40L40CW-ND	New or scrap from PC power supply.	\$3.38
C1	3300 uF 16V	P10260-ND	High Frequency Electrolytic Capacitor	\$1.46
C2	3300 uF 16V	P10260-ND	High Frequency Electrolytic Capacitor	\$1.46
C3	3300 uF 16V	P10260-ND	High Frequency Electrolytic Capacitor	\$1.46
C4	3300 uF 16V	P10260-ND	High Frequency Electrolytic Capacitor	\$1.46
C5	3300 uF 16V	P10260-ND	High Frequency Electrolytic Capacitor	\$1.46
C6	3300 uF 16V	P10260-ND	High Frequency Electrolytic Capacitor	\$1.46
C7	3300 uF 16V	P10260-ND	High Frequency Electrolytic Capacitor	\$1.46
C8	3300 uF 16V	P10260-ND	High Frequency Electrolytic Capacitor	\$1.46
C9	3300 uF 16V	P10260-ND	High Frequency Electrolytic Capacitor	\$1.46
C10	3300 uF 16V	P10260-ND	High Frequency Electrolytic Capacitor	\$1.46
C11	3300 uF 16V	P10260-ND	High Frequency Electrolytic Capacitor	\$1.46
C12	3300 uF 16V	P10260-ND	High Frequency Electrolytic Capacitor	\$1.46
C13	4.7 uF 25V	P973-ND	Electrolytic Capacitor	\$0.20
C14	220 uf 25V	P10271-ND	Electrolytic Capacitor	\$0.63
C15	10 uF 25V	P916-ND	Electrolytic Capacitor	\$0.32
C16	1 nF (1000 pF)	1383PH-ND	Ceramic Capacitor	\$0.08
C17	47 nF(47000 pF)	399-2072-ND	Ceramic Capacitor	\$0.34
C18	0.01 uF	399-2068-ND	Ceramic Capacitor	\$0.19
C19	100 pF	1338PH-ND	Ceramic Capacitor	\$0.09
C20	220 pF	1342PH-ND	Ceramic Capacitor	\$0.11
C21	0.1 uF	399-2074-ND	Ceramic Capacitor	\$0.22

R1	4.7 K		1/4 W Resistor	\$0.05
R2	4.7 K		1/4 W Resistor	\$0.05
R3	2.2 K		1/4 W Resistor	\$0.05
R4	10 K		1/4 W Resistor	\$0.05
R5	4.7 K		1/4 W Resistor	\$0.05
R6	15 K		1/4 W Resistor	\$0.05
R7	1 K		1/4 W Resistor	\$0.05
R8	10 K		1/4 W Resistor	\$0.05
R9	150 K		1/4 W Resistor	\$0.05
R10	68 K		1/4 W Resistor	\$0.05
R11	10 K		1/4 W Resistor	\$0.05
R12	33 K		1/4 W Resistor	\$0.05
R13	27 K		1/4 W Resistor	\$0.05
R14	10 K		1/4 W Resistor	\$0.05
R15	100 ohm		1/4 W Resistor	\$0.05
R16	20 K potentiometer	D4AA24-ND	Single Turn Potentiometer	\$0.35
R17	100 ohm		1/4 W Resistor	\$0.05
R18	100 K		1/4 W Resistor	\$0.05
R19	10 K		1/4 W Resistor	\$0.05
R20	2.6 K		1/4 W Resistor	\$0.05
R21	10 K		1/4 W Resistor	\$0.05
R22	1 K		1/4 W Resistor	\$0.05
T1	Transformer		Hand Wound Transformer	\$0.00
L1	9 uH, 25 A		Hand Wound Inductor	\$0.00
F1	30 A ATO fuse		32 Amp ATO fuse	\$0.45
F1 CLIPS	Spade receptacles		Crimp Female Spade connectors	\$0.50
JP1	PINHD-1X3		Pin Header	\$0.25
Magnet Wire	40 Feet 24 gauge			\$4.00
Stranded Wire.	4 feet 12 gauge			\$3.00
Circuit Board	4.5 x 3 Inch	PC17P-ND		\$4.95
Two 4-40 by 3/8' inch bolts with nuts.			Mounting Hardware	\$0.30
One 6-32 by 1/2 inch bolt with nut.			Mounting hardware	\$0.15
Optional Miscellaneous hardware				
Aluminum .040 or .060 thick, 4.5 by 4.25			Mounting Plate/Heatsink	
Eight 6-32 by 1/4 long Male-Female threaded spacers			Mounting hardware.	
S2 Toggle Switch, SPST			Manual Enable Switch	
S1 Toggle Switch, SPST			Power Switch	
Total				\$55.77