

Part list for Mk2.5 DC-DC power supply						
Component	Qty	Supplier	Cost	Manufacturer	Link	Notes
MAX787CCK	2	Maxim		Maxim	http://www.maxim.com	
MAX788CCK	1	Maxim		Maxim	http://www.maxim.com	only required for 3.3v supply
LM2587-12T	1	National Semiconductor		National Semiconductor	http://www.national.com	
79L05	1	Farnell UK		various	http://www.farnell.com	
CMOS 4049	1	Farnell UK		various	http://www.farnell.com	
47uH Inductor	2	Farnell UK		Newport	http://www.farnell.com	
T6 (Q4339-B)	1	Coilcraft		Coilcraft	http://www.coilcraft.com	part# Q4338-B
22uH inductor	2	Coilcraft		Coilcraft	http://www.coilcraft.com	part# PCV-0-103-05
MBR745	2	Farnell UK			http://www.farnell.com	
MBR340	1	Farnell UK			http://www.farnell.com	
MUR120	1	Farnell UK			http://www.farnell.com	
SA28A	1	Farnell UK			http://www.farnell.com	
1N5819	1	Farnell UK			http://www.farnell.com	
1N4002	2					
3mm Led	1					Use any colour you like
12V SPDT Relay	1	Farnell UK		Omron	http://www.farnell.com	
1800uF 35V Electrolytic	2	Farnell UK		Panasonic	http://www.farnell.com	Must be low ESR type
470uF 25V Electrolytic	4	Farnell UK		Panasonic	http://www.farnell.com	Must be low ESR type
330uF 35V Electrolytic	3	Farnell UK		Panasonic	http://www.farnell.com	Must be low ESR type
220uF 25V Electrolytic	1	Farnell UK		Panasonic	http://www.farnell.com	
10µF 25V Electrolytic	1	Farnell UK		various	http://www.farnell.com	
0.68uF 35V Tantalium Cap	1	Farnell UK			http://www.farnell.com	
100nF Polycap	1	Farnell UK			http://www.farnell.com	work
10nF ceramic cap	2				http://www.farnell.com	
47k 1/4W resistor	1				http://www.farnell.com	
2.7k 1/4W resistor	2				http://www.farnell.com	red, violet, red
3k 1/4W resistor	1				http://www.farnell.com	orange, black, red
470R 1/2W resistor	1				http://www.farnell.com	yellow, violet, brown
PCB	1	Make your own		yourself		
Heatsink	1	Make your own		yourself		cut and bend aluminium to fit
TO220 heatsink electrical						MBR745 diodes must be
insulators	2					electrically isolated
						Connection to battery must be
10A fuse and holder	1					fused
Cables and connectors						fit as required