

Part list for Mk2.5 DC-DC power supply						
Component	Qty	Supplier (order #)	Cost (each)	Manufacturer	Link	Notes
MAX787CCK	2*	Maxim	Free sample	Maxim	http://www.maxim-ic.com	*only 1 required for 3.3V supply
*MAX788CCK	1	Maxim	Free sample	Maxim	http://www.maxim-ic.com	*only required for 3.3V supply
LM2587-12T	1	National Semiconductor	Free sample	National Semiconductor	http://www.national.com	
79L05	1	Farnell UK (701-932)	£0.31	various	http://www.farnell.com	
47uH Inductor	2	Farnell UK (482-572)	£2.78	Newport Power Devices	http://www.farnell.com	part# 1447385
T6 (Q4339-B)	1	Coilcraft	Free sample	Coilcraft	http://www.coilcraft.com	part# Q4339-B
10uH inductor	2	Coilcraft	Free sample	Coilcraft	http://www.coilcraft.com	part# PCV-0-103-05
MBR745	2	Farnell UK (878-261)	£0.72	Motorola	http://www.farnell.com	
MBR340	1	Farnell UK (638-146)	£0.46	Motorola	http://www.farnell.com	
MUR120	1	Farnell UK (930-994)	£0.61	Motorola	http://www.farnell.com	
SA28A	1	Farnell UK (167-356)	£0.61	Fairchild	http://www.farnell.com	
1N5819	1	Farnell UK (573-115)	£0.26	Multicomp	http://www.farnell.com	
1N4002	2	Farnell UK (365-142)	£0.17	Philips	http://www.farnell.com	Any general >0.5A diode will work
3mm Led	1					Use any colour you like
12V SPDT Relay	1	Farnell UK (179-325)	£2.64	Omron	http://www.farnell.com	
1800uF 35V Electrolytic	2	Farnell UK (303-6443)	£1.09	Panasonic FC series	http://www.farnell.com	Must be low ESR type
470uF 25V Electrolytic	4	Farnell UK (303-6273)	£0.36	Panasonic FC series	http://www.farnell.com	Must be low ESR type
330uF 35V Electrolytic	3	Farnell UK (303-6406)	£0.36	Panasonic FC series	http://www.farnell.com	Must be low ESR type
220uF 25V Electrolytic	1	Farnell UK (303-6250)	£0.24	Panasonic FC series	http://www.farnell.com	
0.68uF 35V Tantalium Cap	1	Farnell UK (643-877)	£0.16	AVX	http://www.farnell.com	
100nF Polyester cap	1	Farnell UK (301-8660)	£0.14	AVX	http://www.farnell.com	Any 100nF capacitor should work
10nF ceramic cap	2	Farnell UK (750-890)	£0.12	Multicomp	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 insulators	2	Farnell UK (522-636)	£0.13			MBR745 diodes must be electrically isolated
10A fuse and holder	1					Connection to battery must be fused
Cables and connectors						fit as required