

OL-DRSSTCMasterPartsList
Oct. 12, 2005 V9.1

	Reference	Source	Quantity	Manufacturer	Part Number	Description	Vendor	Part Number	Cost Each	Cost Total	
H-Bridge	C1,C2		2	Cornell Dubilier	942C6W2P5K	2.5uF 600V Metal Foil Polypropylene Caps	Richardson	942C6W2P5K	5.25	10.5	
		2ND	0	Panasonic	ECW-F4245JL	2.4uF 400V Metal Foil Cap ??	DigiKey	P12241-ND	3.13	0	
	C3,C4		2	Panasonic	ECK-D3A103KBP	10nF 1kV Ceramic Capacitor	DigiKey	P4140-ND	0.96	1.91	
		2ND	0	Panasonic	ECKA3A103KBP	10nF 1kV Ceramic Capacitor	DigiKey	P9552-ND	0.99	0	
	IGBT1-IGBT4		4	International Rectifier	IRG4PF50WD	900V 204Apeak IGBT with Diode	DigiKey	IRG4PF50WD-ND	7.11	28.44	
	R1-R4		4	Panasonic	ERG2SJ101	100 Ohm 2W Resistor	DigiKey	P100W-2BK-ND	0.28	1.12	
	R5,R6		2	Panasonic	ERG-2SJ472	4.7K 2W Resistor	DigiKey	P4.7KW-2BK-ND	0.21	0.41	
	TVS1-TVS4		4	Diodes Inc.	1.5KE24CACT	24V 1500 Watt Bi-Dir TVS	DigiKey	1.5KE24CADICT-ND	0.6	2.38	
	Terminal Block		4	Molex	1716020000	2-Pos Terminal Block	DigiKey	281-1435-ND	0.51	2.05	
	Terminals		8	Keystone	8191	Screw Terminal	DigiKey	8191K-ND	0.02	0.16	
	PC Board		1	ExpressPCB	H-Bridge-02.pcb	Drive PC Board	ExpressPCB	H-Bridge-02.pcb	20	20	
	Heat Sink		4	Wakefield	634-20ABP	Small Heat Sink – IGBT	DigiKey	345-1027-ND	2.42	9.68	
									Total	76.66	76.66
Feedback	CT11-CT4		4	Triad	GST206-1T	120A Current Transformer 10k-200k Hz	DigiKey	237-1097-ND	6.67	26.68	
								Total	26.68	26.68	
Firing Circuit	D1		2	Diodes Inc.	1N4007DICT	1N4007 Rectifier	DigiKey	1N4007DICT-ND	0.26	0.52	
	C1		1	Panasonic	ECW-F6474JL	0.47uF 630V Poly Capacitor	DigiKey	P12268-ND	1.98	1.98	
	R1		1	Panasonic	TA205PA2K40J	2.4K 5W Resistor	DigiKey	TA205PA2K40J-ND	1.5	1.5	
	R2		1	Yageo	CFR-50JB-1M0	1M 1/2W Resistor	DigiKey	1.0MH-ND	0.02	0.02	
	SIDAC1		1	Teccor	K1500E70	140V 1A SIDAC	DigiKey	K1400E70-ND	0.52	0.52	
								Total	4.54	4.54	
AC Line	F1		1	Bussmann	MDA-15	15A SlowBlow Fuse	DigiKey	283-2310-ND	1.23	1.23	
	D1		1	Crydom	CC1493	20A 1000PIV Rectifier	DigiKey	CC1493-ND	1.95	1.95	
	C1- C20		20	Panasonic	EEUEB2E220	22uF 250V Elect. Capacitor	DigiKey	PF5922-ND	0.63	12.68	
	FAN1		1	Sunon	259-1104-ND	120VAC 92MM AC Fan	DigiKey	259-1104-ND	11.82	11.82	
	R1-R4		4	Panasonic	ERG-3SJ273	27K 3W Resistor	DigiKey	P27KW-3BK-ND	0.48	1.9	
	LED1		1			LED Red			0	0	
	Fan Guard		1	Qualtek	8174	Fan Guard	DigiKey	CR220-ND	0.68	0.68	
	Heat Sink		1	IERC	7-340-3PP-BA	TO-220 Heat Sink	DigiKey	294-1035-ND	1.63	1.63	
	Lblock		1			500' 14 Ga. Wire Roll	Home Depot		16	16	
	NTC1		1	GE	CL-30	Inrush Current Limiter	DigiKey	KC003L-ND	2.7	2.7	
								Total	50.6	50.6	
								Total	158.47	158.47	