

	http://www.instructables.com/id/Build-Your-Own-ELECTRIC-MOTORCYCLE/				
	http://www.instructables.com/id/Engineer-Your-Own-Electric-Motorcycle/				
	http://www.ev-propulsion.com/EV-calculations.html				
	https://www.linkedin.com/pulse/amp-hours-vs-kilowatt-oluwaseun-ibosiola/				

		Item	Budget Amount	Amount Used	Remainder	Accquired	3100
		Battery Pack	\$1,000.00	\$828.10			
		Motor	\$1,000.00	\$1,630.00			
		Controller	\$400.00				
		Charger	\$150.00	\$680.00			
		BMS		\$468.00			
		Rolling Chasis	x			x	
		Wiring	\$125.00				
		Motor Mount	\$50.00				
		Battery Mount	\$50.00				
		Misc Hardware	\$50.00				
		Road Equipment	\$300.00				
		Total Budget	\$3,125.00	\$3,606.10	\$0.00		

	BMS	Length (in)	Width (in)	Height (in)	# of Cells	Link	Price
	Thunder Struck				24.00	https://www.thunderstruck.com	\$450.00
	LI-NCM 13S				13 S	https://www.electrochem.com	\$16.00

Charger	Requires Controller?	Output Voltage	Output Current	Length (in)	Width (in)	Height (in)	Weight (lbs)	Waterproof?	Link	Price
TSM1500	Yes, EVCC	24	40	10.12	6.75	3.34	8.00	IP66	http://www.flymtr.com	\$425.00
TSM2500	Can't remember	24	12.5	10.12	10.24	3.31	11.50	IP66		\$235.00

Charger Controller	Compatible Chargers	Link	Price	Qty	Total
EVCC-Basic	TSM2500/1500, ELCo	http://www.flymtr.com	\$182.50	1.00	182.50
					0.00
					0.00
<u>Balance</u>			\$23.50	13.00	305.50
					0.00
					0.00

Motor	Weight (lbs)	Voltage VDC	Peak Pwr (hp)	Cont Pwr (hp)	Torque N*m	Diameter (in)	Width (in)	Link	Controller Option	Price
ME1002	190	48	85	35	NA	9.76	15.98	http://www.motors.com	Alitix	\$490.00
ME1507	47.08	<100	64.32	17.42	120	8.66	5.87	http://www.motors.com	Curtis 1231	\$1,400.00
ME909	24	24-48	15	4.8	NA	6.89	6.30	http://www.motors.com	Alitix	\$440.00
ME 1718	26	48	5.36	9.55	5.91	5.91	5.91	http://www.motors.com	Curtis 1232 E	\$690.00
ME 1003	39	12-72	26.8	15.41	35.59	7.91	7.42	http://www.motors.com	Alitix SR 72400	\$770.00

Kits	Motor	Controller	Throttle	Voltage VDC	Link	Price
Curtis Brushless 16KW	ME1718	Curtis 1232 E	Magura	36-48	https://www.thundr.com	\$1,550.00
Basic Part Kit	ME 1507	Alitix SR 48300	Magura	24-48	https://www.thundr.com	\$2,575.00
Budget Screamer	ME 1003	Alitix SR 72400	Magura	24-72	https://www.thundr.com	\$1,600.00

Controller	Length (in)	Width (in)	Height (in)	Cont Curnet	Link	Price
Curtis 1231C	9	5.50	3.70		https://www.thu	\$1,950.00
Curtis 1232E-5321					https://www.thu	\$675.00
Alltrax SR 48300	9.01	6.07	3.55	210.00	https://www.thu	\$435.00
Alltrax SR 72400	9.01	6.07	3.55	270.00	https://www.thu	\$645.00

Needed Voltage	Needed Range (mi)	Consumption Whr/mi	F.S	Needed Whr	Needed Ahr		Battery Budget	Bounding Volume						
48	26.00	100	1	2600	54.17		\$1,000.00							
Battery	Company	Unit Voltage	Unit Amp Hours	Unit Weight (lbs)	Unit Cost (USD)	Unit Volume (in^3)	# Batteries needed in Series	Packs Needed in Parrallel	Total Batteries	Total Weight	Total Cost	Total Volume	Purchasing Link	
LiFePO4	Monster Scooter	48	11	9.25	\$389.99	263.2	1	5	5	46.25	\$1,949.95	1316	pack-golden.html	
LiFePO5	Monster Scooter	24	20	8.2	\$319.00	263.2	2	3	6	49.20	\$1,914.00	1579.2	pack-charger.html	
LiFePO4	PK Cell (18650)	1.2	0.8		\$2.50	1	40	68	2720	0.00	\$6,800.00	2720	ry%2Bcells&th=1	
LiFePO4	Tesla	24	250		\$1,399.99		2	1	2	0.00	\$2,799.98	0		
LiFePO4	E-Motorsports	3.2	100	7.05	\$153.75	124.67	15	1	15	105.75	\$2,306.25	1870.08	v-100ah-cell.html	
SLA	Renology	12	100	4.41	\$233.99	59.71	4	1	4	17.64	\$935.96	238.86	ad-acid-battery/	
LiFePO4	CALB	3.2	30		\$19.40		15	2	30	0.00	\$582.00	0.00		
Li-NCM	Best Go	3.7	60	3.3	\$57.00	64.032	13	1	13	42.90	\$741.00	832.42	um-Battery-Pack	
Li-NCM	Best Go	3.7	80	3.9	\$62.50		13	1	13	50.70	\$812.50	0.00		
Li-NCM	Best Go	3.7	32	6.6	\$29.10	103	13	2	26	171.60	\$756.60	2678.00		
LIPO	ReLion	48	12.8	4	\$255.00	103	1	5	5	20.00	\$1,275.00	515.00		