

2012 EV Challenge Vehicle Information

Vehicle #	1	2	3	4	5	6	7	Vehicle #	8	9	10	11
Team	Topsail #1	West Wilkes #1	Central Shenandoah	McMichael	Morehead	Monongalia Tech Ed Ctr	Mount Vernon	Team	Miramar	Dudley #1	Topsail #2	West Wilkes #2
Make, Model and Year	2001 Ford Ranger	2000 Chevy S10	1983 Porsche 911	1992 Ford Mustang	1997 Saturn SL2	1993 Mazda MX3	1988 Pontiac Fiero	Make, Model and Year	1984 Porsche 944	1990 Mazda B-2200	1991 Toyota MR2	2000 Mazda Miata
Class	Truck	Truck	Modified	Car	Modified	Modified	Modified	Class	Modified	Truck	Modified	Modified
Year Converted	2010	2011	2005	2011	2010	2003	2008	Year Converted	2004	2010	2009	2008
Gross Veh. Wt. Rating (pounds)	4600	4600	3418	4273	3372	3141	3253	Gross Vehicle Weight	3630	4460	3370	2835
Approx. Weight (pounds)	4250	3400	2521	3250	3270	2630	2750	Approx. Weight	2430	3180	2525	2830
Motor Make and Model	Advanced DC 9"	Netgain WARP 11"	GE	Advanced DC 9"	Netgain Warp 9"	Advanced DC 9"	Advanced DC 9"	Motor Make and Model	Netgain Warp 9"	Advanced DC 9"	Netgain Warp 9"	Netgain WARP 11"
Modified Only: Two Motors?	X	X	No	X	No	No	X	Modified Only: Two Motors?	Yes	X	No	No
Controller Make and Model	Synkromotive	Netgain Warp-Drive	GE EVT100	Evnetics Soliton 1	Evnetics Soliton 1	Curtis 1231C	Curtis 1231C	Controller Make and Model	Zilla	Curtis PMC 1231C	DCP Raptor	Zilla 1K
Max Controller Current (amps)	800 -- Scaled to 600	1000 -- Scaled to 600	600	1000	1000	500	500	Max Controller	2000 - Scaled to 1200	500	1200	1000
Battery Make and Model	US Battery U145-XC	Discovery EV12A-A	Optima Yellow Top	N/A	Deka Seamate / RV	NAPA Select Orbital	GBS Li-ion	Battery Make and Model	HTS Lithium	UPS6-620FR	Thunder Sky Lithium	Trojan 24-AGM
Individual Battery Voltage	6	12	12	8	12	12	12	Ind. Battery Voltage	3.5	6	3.2	12
Total Voltage	96	96	120	96	156	144	96	Total Voltage	137	96	153.6	156
Number of Batteries	16	8	10	12	13	12	16	Number of Batteries	748	16	48	13
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Class	Truck	Truck	Modified	Car	Modified	Modified	Modified	Class	Modified	Truck	Modified	Modified
Charger Make and Model	EIcon 2400	Zivan NG-5	Master Charger	Quick Charge OP96V/12A	EIcon PFC 2500	Elcon PFC 2500	Manzanita Micro PFC20	Charger Make and Model	Manzanita Micro PFC 30	Lester	Zivan NG-3	EIcon PFC TCCH-144-36
Charger Input	110	220	110	110	110/220	110	110/220	Charger Input	110/220	220	110	110/220
DC/DC Converter	DCP	PC45B Power Source	No	Curtis 1400E	IOTA DLS-30	DCP DC-300	Astrodyne DC SD-350D-12	DC/DC Converter	IOTA DLS 45	No	IOTA 45	IOTA DLS-55
Manual Transmission?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Manual Transmission	Yes	Yes	Yes	Yes
Clutch?	No	No	Yes	No	No	No	Yes	Clutch?	No	No	No	No
Tire Make and Model	Nexen N5000 P235/55/R17	Kendra 20560R15	Yokohama A-509 205/50R15 85V	Kumho Escta XS	MultiMile	Signet SB 70/185/70R14	Dunlop Direzza Sport Z1 P205/55x16	Tire Make and Model	265 35 19 and 225 50 Competition Tires	BFGoodrich 75R14	Federal 235/40R17	Cooper R15
Competition Tires Used?	X	X	Yes	X	N/A	Yes	X	Competition Tires Used?	Yes	X	No	No
Battery Equalization	No	No	No	No	No	No	Yes	Battery Equalization	Yes	No	No	No
Tachometer?	No	Yes	No	Yes	Yes	No	Yes	Tachometer?	Yes	No	No	Yes
Digital Energy Meter?	Yes	No	No	No	No	No	Yes	Digital Energy	Yes	Yes	Yes	No
Ammeter?	Yes	Yes	No	Yes	Yes	Yes	Yes	Ammeter?	Yes	Yes	Yes	Yes
Voltmeter?	Yes	Yes	No	Yes	Yes	Yes	Yes	Voltmeter?	Yes	Yes	Yes	Yes
Air Conditioning?	No	No	No	No	No	No	No	Air Conditioning	No	No	No	No
Heater?	Yes	No	No	No	No	No	Yes	Heater?	No	No	No	No
Stereo?	No	No	No	No	No	No	Yes	Stereo?	No	No	Yes	No