

EV BATTERY COSTS ANALYSIS

What are the costs of EV battery for different Models?



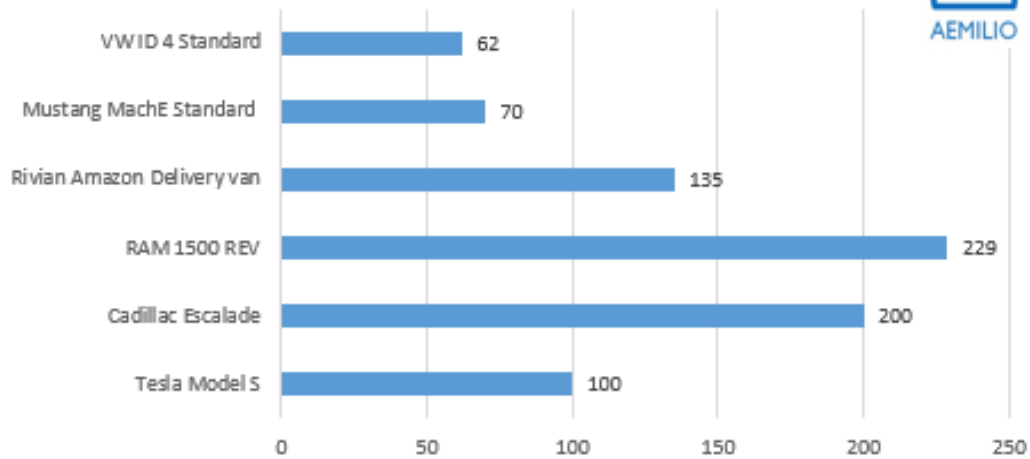
Model	Battery Chemistry	Battery Capacity (kWh)	Battery Cost (\$)	Car Cost (\$)	Battery/Car Cost (%)	Battery Cost (\$)/ kWh	Car Cost (\$)/ kWh
Tesla Model S	NCA	100	12030	88490	13,59%	120,3	884,9
Cadillac Escalade	NMC	200	22540	130000	17,34%	112,7	650,0
RAM 1500 REV	NMC	229	25853	81000	31,92%	112,9	353,7
Rivian Amazon Delivery van	LFP	135	13298	52690	25,24%	98,5	390,3
Mustang MachE Standard	LFP	70	6895	43179	15,97%	98,5	616,8
VW ID 4 Standard	NMC	62	8730	37250	23,44%	140,8	600,8



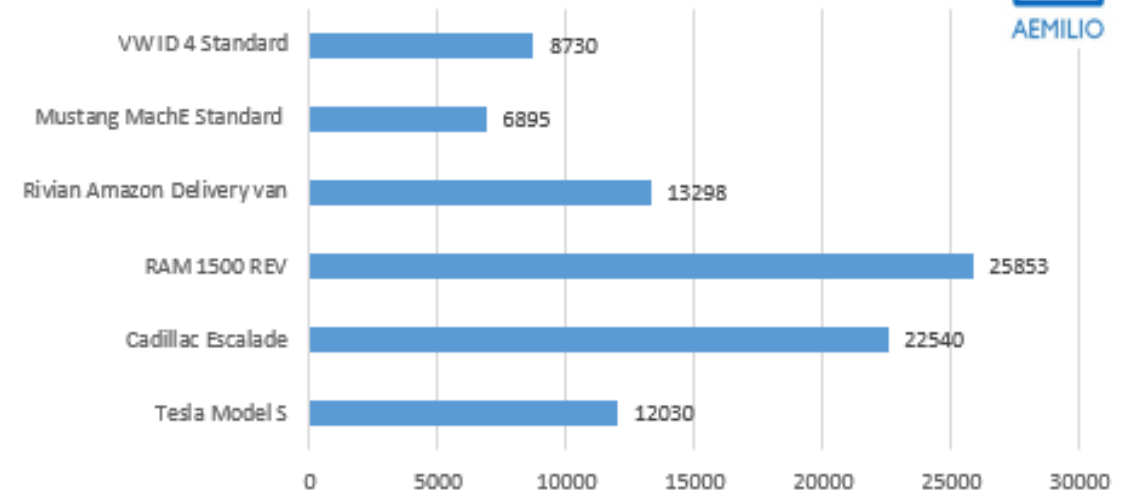
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Battery Capacity (kWh)



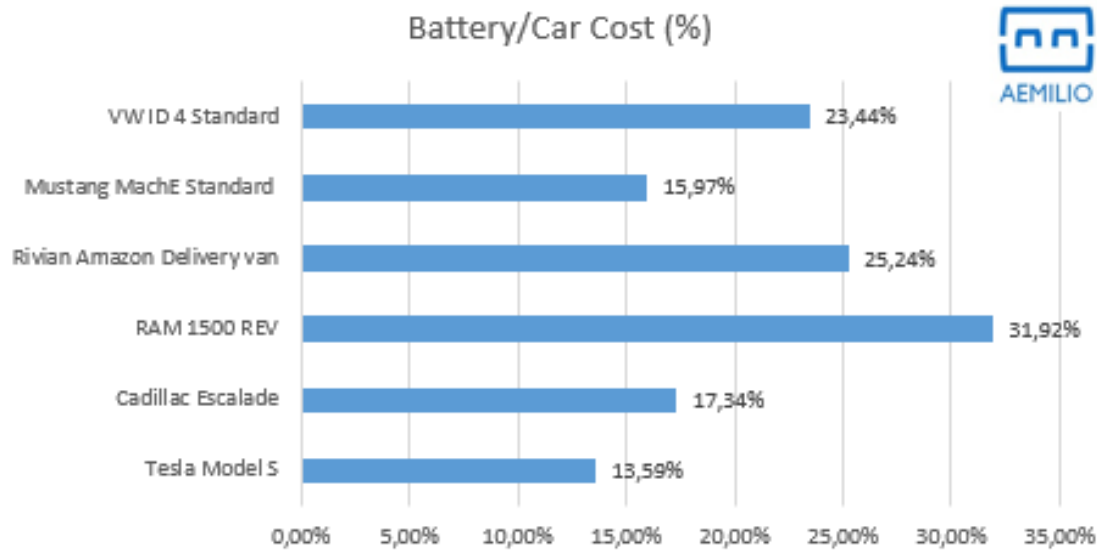
Battery Cost (\$)



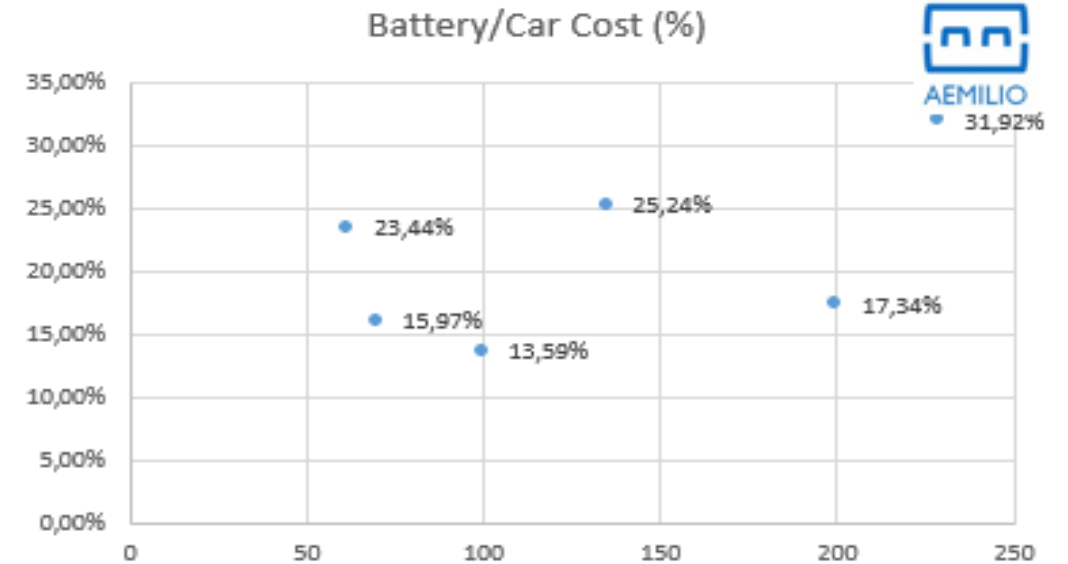
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Battery/Car Cost (%)



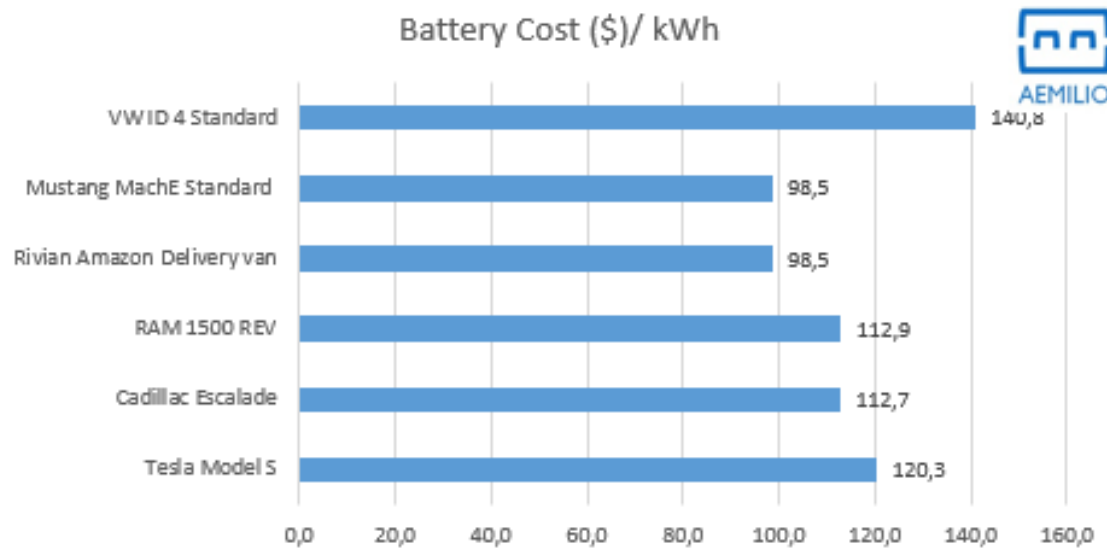
Battery/Car Cost (%)



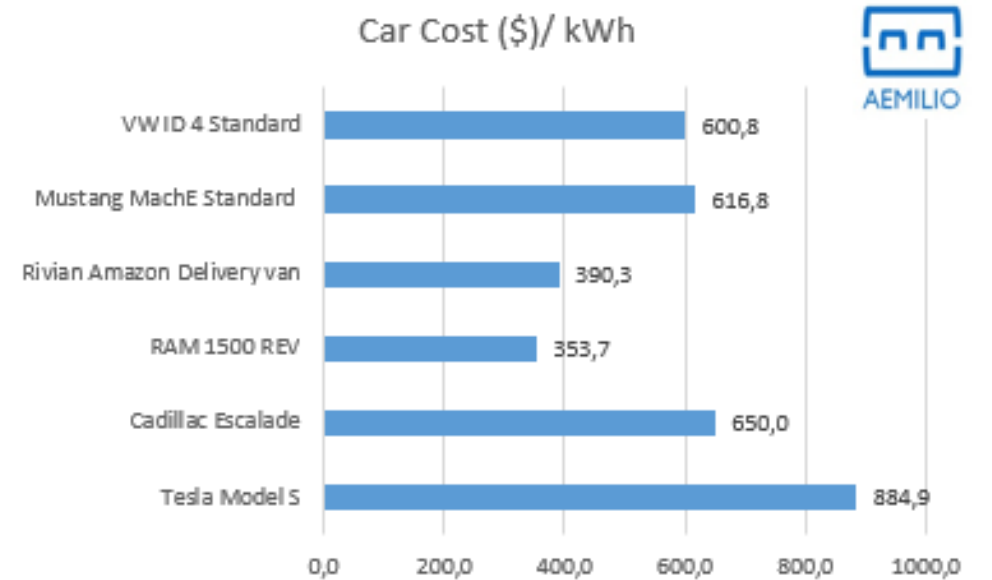
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Battery Cost (\$)/ kWh



Car Cost (\$)/ kWh



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Results and Insights

- LFP cheaper than NMC per kWh as expected
- Tesla Higher cost at the vehicle level per kWh (Luxury)
- RAM and Rivian Cheaper at the vehicle level per kWh (delivery and pick up)
- VW higher battery cost per kWh at similar battery chemistry

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