



Downloadable Dynamometer Database (D³)- Test Summary Sheet

2015 Mercedes B-Class Electric	
Vehicle architecture	BEV
Document date	4/25/2016
Revision Number	1
Notes:	

Vehicle Setup Information	
Test cell location	ANL APRF Bdg 371
Vehicle dynamometer Input	
Test weight [lb]	4246
Target A [lb]	27.33666
Target B [lb/mph]	0.45993
Target C [lb/mph^2]	0.012594
Test Fuel Information	
Fuel type	Electricity
Fuel density [g/ml]	-
Fuel Net HV [BTU/lbm]	-

Test ID [R#]	Cycle	Cold start (CS) Hot start [HSg]	Date	Test Cell Temp [C]	Test Cell RH [%]	Test Cell Baro [inHg]	Vehicle cooling fan speed Speed Match [SM] or constant speed [CS]	Solar Lamps [W/m2]	Vehicle Climate Control settings	Hood Position [Up] or [Closed]	Window Position [Closed] or [Down]	Cycle Distance [mi]	Cycle Fuel economy [mpg] (Emiss Bag)	Cycle Fuel Consumed [gal] (Emiss Bag)	Cycle HV battery Integrated net current [DC Ah]	Cycle HV battery Average Zero crossing Voltage [V]	Cycle HV battery Net Energy [DC Wh]	Cycle HV battery Net Energy Consumption [DC Wh/mi]	
Test information				Test cell information			Test cell setup		Vehicle setup			Electric energy consumption							
61512023	UDDS #1, Ph 1+2	CS	12/14/15	-17	22	29	SM	0	72	Closed	Closed	7.44			21.521	318.1	6406.66	861.53	
61512023	Hwy #1, Ph 3	HS	12/14/15	-14	16	29	SM	0	72	Closed	Closed	10.24			16.904	309.0	5046.85	492.68	
61512023	UDDS #2, Ph 4+5	HS	12/14/15	-17	18	29	SM	0	72	Closed	Closed	7.49			17.994	302.5	5294.60	706.57	
61512023	US06 #1, Ph 6+7	HS	12/14/15	-12	13	29	SM	0	72	Closed	Closed	8.03			14.397	292.4	3949.89	491.66	
61512024	US06 #2, Ph 1+2	HS	12/14/15	-12	13	29	SM	0	72	Closed	Closed	8.00			14.768	284.1	3880.15	484.99	
61512024	UDDS #3, Ph 3+4	HS	12/14/15	-17	17	29	SM	0	72	Closed	Closed	6.40			10.943	269.1	2789.20	435.51	
Full charge test summary												Totals	47.61		96.53		27367		
Re-charging information												-17 Temperature during charge [C]			Total energy used during testing prior to charge[DC Wh]			27600	
Level:												Charge integrated power [AC Wh]			33520				
61512021	UDDS #1, Ph 1+2	CS	12/11/15	-6	3	29	SM	0	72	Closed	Closed	7.42			17.970	324.0	5572.56	750.90	
61512021	Hwy #1, Ph 3	HS	12/11/15	-4	3	29	SM	0	72	Closed	Closed	10.25			13.731	314.9	4215.87	411.44	
61512021	UDDS #2, Ph 4+5	HS	12/11/15	-7	4	29	SM	0	72	Closed	Closed	7.48			11.506	309.3	3476.77	465.00	
61512021	US06 #1, Ph 6+7	HS	12/11/15	-3	3	29	SM	0	72	Closed	Closed	8.03			12.833	300.2	3618.32	450.67	
61512022	US06 #2, Ph 1+2	HS	12/11/15	-2	3	29	SM	0	72	Closed	Closed	8.03			13.362	293.9	3676.68	457.82	
61512022	UDDS #3, Ph 3+4	HS	12/11/15	-7	4	29	SM	0	72	Closed	Closed	7.44			11.629	290.8	3290.00	442.35	
61512022	HWY #2, Ph 5	HS	12/11/15	-4	3	29	SM	0	72	Closed	Closed	10.24			13.948	276.5	3629.39	354.46	
61512022	UDDS #4, Ph 6	HS	12/11/15	-8	4	29	SM	0	72	Closed	Closed	1.45			2.092	265.9	515.42	355.13	
Full charge test summary												Totals	60.33		97.07		27995		
Re-charging information												-7 Temperature during charge [C]			Total energy used during days testing [DC Wh]			28140	
Level:												Charge integrated power [AC Wh]			32930				
61512013	UDDS #1, Ph 1+2	CS	12/07/15	23	46	30	SM	0	Off	Closed	Open	7.44			5.663	334.2	1846.00	248.07	
61512013	HWY, Ph 3	HS	12/07/15	25	33	30	SM	0	Off	Closed	Open	10.24			8.089	328.2	2605.50	254.48	
61512013	UDDS #2, Ph 4+5	HS	12/07/15	20	52	30	SM	0	Off	Closed	Open	7.50			5.611	325.2	1777.40	237.14	
61512013	US06 #1, Ph 6+7	HS	12/07/15	25	44	30	SM	0	Off	Closed	Open	8.04			8.437	318.7	2541.50	316.25	
61512014	SSS 65MPH, Ph 1	HS	12/07/15	26	33	30	SM	0	Off	Closed	Open	30.11			27.430	304.6	8267.50	274.57	
61512014	US06 #2, Ph 3+4	HS	12/07/15	24	47	30	SM	0	Off	Closed	Open	8.03			8.734	298.4	2449.50	305.22	
61512015	UDDS #3, Ph 1+2	HS	12/07/15	20	61	29	SM	0	Off	Closed	Open	7.43			5.716	297.7	1653.90	222.57	
61512015	Hwy #2, Ph 3	HS	12/07/15	25	29	30	SM	0	Off	Closed	Open	10.23			7.653	292.8	2196.50	214.72	
61512015	UDDS #4, Ph 4+5	HS	12/07/15	20	55	29	SM	0	Off	Closed	Open	7.44			5.855	289.2	1638.91	220.22	
61512016	SSS 65 to deplete	HS	12/07/15	27	31	29	SM	0	Off	Closed	Open	15.68			16.034	227.4	4282.84	273.07	
Full charge test summary												Totals	112.13		99.22		29260		
Re-charging information												23 Temperature during charge [C]			Total energy used during days testing [DC Wh]			29285	
Level:												2	Charge integrated power [AC Wh]			34020			
72F MCT with prior charge using "Extended Range" button selected																			
61512031	UDDS #1, Ph 1+2	CS	12/17/15	23	42	29	SM	0	Off	Closed	Open	7.43			5.287	340.8	1759.00	236.63	
61512031	Hwy #1, Ph 3	HS	12/17/15	25	37	29	SM	0	Off	Closed	Open	10.25			6.901	335.2	2275.50	222.11	
61512031	UDDS #2, Ph 4+5	HS	12/17/15	20	61	29	SM	0	Off	Closed	Open	7.43			5.076	331.7	1642.50	220.99	
61512031	US06 #1, Ph 6+7	HS	12/17/15	25	46	29	SM	0	Off	Closed	Open	7.99			6.954	325.8	2162.50	270.60	
61512032	SSS 65MPH, Ph 1	HS	12/17/15	27	36	29	SM	0	Off	Closed	Open	48.78			41.326	306.8	12609.92	258.49	
61512032	US06 #2, Ph 3+4	HS	12/17/15	25	36	29	SM	0	Off	Closed	Open	8.02			8.494	297.4	2375.99	296.13	
61512033	UDDS #3, Ph 1+2	HS	12/17/15	20	53	29	SM	0	Off	Closed	Open	7.44			5.507	296.8	1588.00	213.44	
61512033	Hwy #2, Ph 3	HS	12/17/15	25	31	29	SM	0	Off	Closed	Open	10.25			7.697	291.5	2199.52	214.68	
61512033	UDDS #4, Ph 4+5	HS	12/17/15	20	53	29	SM	0	Off	Closed	Open	7.49			5.757	287.5	1599.29	213.54	
61512034	SSS 65 to deplete	HS	12/17/15	27	30	29	SM	0	Off	Closed	Open	13.59			13.971	214.6	3718.00	273.54	
Full charge test summary												Totals	128.68		106.97		31930		
Re-charging information												23 Temperature during charge [C]			Total energy used during days testing [DC Wh]			32210	
Level:												2	Charge integrated power [AC Wh]			38820			
61512006	SSS 0-80-0 0% Grade	HS	12/04/15	23	49	30	SM	0	Off	Closed	Open	6.21			4.911	332.1	1577.88	253.90	
61512007	SSS 0-80-0 6% Grade	HS	12/04/15	23	34	30	SM	0	Off	Closed	Open	6.21			16.378	323.4	5023.76	808.95	
61512009	WOTs / varying Regen levels / Decel rates	HS	12/04/15	22	46	30	SM	0	Off	Closed	Open	7.82			15.523	309.8	3976.50	508.42	
61512010	Passing Maneuvers 0.3,6% grade	HS	12/04/15	25	48	30	SM	0	Off	Closed	Open	7.74			20.775	303.7	5430.53	701.41	
61512011	25% Grade Test	HS	12/04/15	21	38	30	SM	0	Off	Closed	Open	0.58			7.885	291.3	1940.50	3320.22	
61512017	UDDS #1, Ph 1+2	CS	12/09/15	35	41	29	SM	850	72	Closed	Closed	7.45			6.595	333.4	2152.87	288.91	
61512017	Hwy #1, Ph 3	HS	12/09/15	38	30	29	SM	850	72	Closed	Closed	10.24			7.094	328.1	2290.67	223.62	
61512017	UDDS #2, Ph 4+5	HS	12/09/15	34	55	29	SM	850	72	Closed	Closed	7.47			6.307	325.1	2006.95	268.62	
61512017	US06 #1, Ph 6+7	HS	12/09/15	38	30	29	SM	850	72	Closed	Closed	8.02			8.260	318.8	2505.57	312.36	
61512018	SSS 65MPH, Ph 1	HS	12/09/15	39	30	29	SM	850	72	Closed	Closed	37.45			32.834	303.0	9883.00	263.90	
61512018	US06 #2, Ph 3+4	HS	12/09/15	37	37	29	SM	850	72	Closed	Closed	8.02			8.787	296.1	2456.00	306.37	
61512019	SC03, Ph 1	HS	12/09/15	35	51	29	SM	850	72	Closed	Closed	3.57			3.544	295.0	1013.00	283.58	
61512019	SC03, Ph 2	HS	12/09/15	35	51	29	SM	850	72	Closed	Closed	3.59			3.885	291.9	1100.31	306.60	
61512019	Hwy #2, Ph 3	HS	12/09/15	38	38	29	SM	850	72	Closed	Closed	10.26			8.069	287.1	2270.39	221.27	
61512019	UDDS #4, Ph 4+5	HS	12/09/15	34	52	29	SM	850	72	Closed	Closed	7.48			7.282	281.5	1991.60	266.12	
61512020	SSS 65 to deplete	HS	12/09/15	40	27	29	SM	850	72	Closed	Closed	6.28			6.920	177.3	1795.00	285.79	
Full charge test summary												Totals	109.84		99.58		29465		
Re-charging information												35 Temperature during charge [C]			Total energy used during days testing [DC Wh]			29593	
Level:												2	Charge integrated power [AC Wh]			34910			